

Central Connecticut State University

UNIVERSITY SENATE ACTION

Senate Motion Number FS 11.12.039B

TO: President Jack Miller

FROM: President of the University Senate

1. The attached motion of the University Senate, dealing with: **Curriculum Committee meeting of May 2, 2012** is presented to you for your consideration.
2. This motion was adopted by the University Senate on **5/7/2012**.
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.

5/14/2012

Date

BB for CB

Candace Barrington, President, University Senate

ENDORSEMENT:

TO: President of the University Senate

FROM: President Jack Miller

1. Motion Approved : ✓
2. Motion Disapproved: _____ (Explanatory statement must be appended).
3. Action "is deferred": _____
4. Resolution Noted: _____
5. Other: _____

5/22/12

Date

Jack W Miller

President Jack Miller

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and Archives**To: Faculty Senate****From: Don Adams, Chair of the Curriculum Committee****Date: 5/4/2012**

On May 2, 2012, the Curriculum Committee met and approved the following items. On behalf of the Curriculum Committee, I submit these items for the approval of the Faculty Senate at its meeting on Monday, May 7, 2012.

A. The 2012-14 Chair of the Curriculum Committee will be Mark Jackson (Biology)**B. Academic Standards' Guidelines for Program Requirements.****C. List of Courses Scheduled for Deletion**

Subj Code	Crse Numb	Term Last Offered	Term Desc
BE	410	200940	Spring 2009
BE	501	200950	Summer 2009
BE	571	200950	Summer 2009
BUS	590	200950	Summer 2009
CECW	510	200740	Spring 2007
CIE	100	200920	Winter 2008-2009
COMM	512	200640	Spring 2006
ED	545	200950	Summer 2009
EDL	634	200950	Summer 2009
ENG	386	200910	Fall 2008
ESCI	462	200940	Spring 2009
ESL	201	200540	Spring 2005
ETC	457	200840	Spring 2008
HIST	251	200810	Fall 2007
HIST	474	200840	Spring 2008
HIST	590	200850	Summer 2008
ITBD	220	200840	Spring 2008
ITBD	221	200840	Spring 2008
ITBD	222	200740	Spring 2007
ITBD	223	200840	Spring 2008
MATH	449	200950	Summer 2009
MATH	470	200950	Summer 2009
MKT	480	200820	Winter 2007-2008
MKT	495	200850	Summer 2008
PS	432	200910	Fall 2008
SCI	452	200910	Fall 2008
SCI	456	200640	Spring 2006
SPED	577	200310	Fall 2002
SPED	578	200940	Spring 2009
TE	513	200650	Summer 2006
VTE	328	200510	Fall 2004
WGSS	241	200810	Fall 2007

D. Items Approved**1. Biology****1.1. Graduate Course Revision: ACP 500**

1.1.1. Revising ACP 500 to the following:

1.1.1. REVISE ACP 500 TO BE FOLLOWING.**ANES 500 Basic Principles of Nurse Anesthesia Practice 3**

Prereqs: Completion of 24 credits in DNAP program or 21 credits in M.S. Biological Sciences: Anesthesia Program. Overview of current anesthetic practice (45 hours). Topics include pre-anesthesia evaluation, fluid and blood therapy, monitoring the anesthesia machine, acid-base balance, pain management, post anesthesia care unit, and regional anesthesia. Conducted at affiliated hospital school of nurse anesthesia. Spring, Summer.

1.2. Graduate Course Addition: ANES 501 Advanced Principles of Nurse Anesthesia Practice I**1.2.1. Create course as follows:****ANES 501 Advanced Principles of Nurse Anesthesia Practice I 3**

Prereq.: ANES 500. Coreq.: ACP 730 or ACP 731. Advanced principles and techniques for anesthesia in cardiac, pulmonary, pediatric, obstetrical, neurological, vascular, gynecologic, urological, ophthalmic, emergency, and other case management; also includes regional anesthesia theories and techniques and principles of advanced fluid and electrolyte therapy; principles of advanced fluid and electrolyte therapy; anesthesia management of patients with altered endocrine function, obesity and specific pathophysiology in relation to anesthesia administration and management. Summer, Fall.

1.3. Graduate Course Addition: ANES 502 Advanced Principles of Nurse Anesthesia Practice II**1.3.1. Create course as follows:****ANES 502 Advanced Principles of Nurse Anesthesia Practice II 1**

Prereq.: ANES 501 and cumulative GPA of 3.00. Coreq.: ACP 731 or ACP 732. Continuation of ANES 501.

1.4. Graduate Course Addition: ANES 510 Physics in Anesthesia**1.4.1. Create course as follows:****ANES 510 Physics in Anesthesia 1**

Coreq.: ACP 730. Physics with respect to anesthesia theory, practice, equipment, and safety. Includes a review of organic molecules from which anesthetics and accessory drugs are derived, diffusion and factors affecting diffusion; properties of flow characteristics; gas laws; electricity; lasers; and physics of the anesthesia machine, vaporizers, and cylinders. Summer.

1.5. Graduate Course Addition: ANES 515 Professional Aspects of Nurse Anesthesia Practice**1.5.1. Create course as follows:****ANES 515 Professional Aspects of Nurse Anesthesia Practice 3**

Prereq.: ANES 500 and cumulative GPA of 3.00. Coreq.: ACP 731 or ACP 733. Practice of anesthesia including professional behavior; biomedical ethics and ethical responsibility; social, political, legal, and economic aspects of anesthesia practice; substance abuse; quality assurance, risk management and insurance; government regulation of practice; historical background and development of nurse anesthesia.

1.6. Graduate Course Addition: ANES 528 Anesthesia Pharmacology**1.6.1. Create course as follows:****ANES 528 Anesthesia Pharmacology 2**

Prereq.: Cumulative GPA of 3.00. Prereq. or Coreq.: ANES 500. Coreq.: ACP 730. Pharmacology of drugs used in anesthesia with emphasis on pharmacokinetics and dynamics of the volatile and non-volatile inhalation agents, intravenous anesthetic and accessory/adjuvant drugs (induction agents, muscle relaxants, opioids, benzodiazepines, butyrophenones, anticholinergics, and anticholinesterases), and local anesthetics. The signs and stages of anesthesia will be covered along with theories of narcosis. Summer.

1.7. Graduate Course Addition: ANES 590 Clinical Correlation Conferences**1.7.1. Create course as follows:****ANES 590 Clinical Correlation Conferences 2**

Prereq.: ANES 501. Coreq.: ACP 732 or ACP 733. Lectures, clinical case study presentations, student presentations, and analysis of current anesthesia literature and research. Spring, Summer.

1.8. Graduate Course Addition: ACP 730 Anesthesia Clinical Practicum I**1.8.1. Create course as follows:****ACP 730 Anesthesia Clinical Practicum I 1**

Prereq.: Completion of 36 credits in DNAP Entry-Level Specialization program and cumulative GPA of 3.00. Structured, supervised clinical training and experience to learn how to organize, administer, and manage anesthesia in a wide range of ages of patients (minimum 32 hours per week). Conducted at affiliated hospital school of nurse anesthesia or affiliated sites. Summer.

1.9. Graduate Course Addition: ACP 731 Anesthesia Clinical Practicum II**1.9.1. Create course as follows:****ACP 731 Anesthesia Clinical Practicum II 1**

Prereq.: ACP 730 and cumulative GPA of 3.00. Continuation of ACP 730. Additional minimum of 32 hour per week. Conducted at affiliated hospital school of nurse anesthesia or affiliated clinical sites. Fall.

1.10. Graduate Course Addition: ACP 732 Anesthesia Clinical Practicum III.**1.10.1. Create course as follows:**

ACP 732 Anesthesia Clinical Practicum III 1

Prereq.: ACP 731 and cumulative GPA of 3.00. Continuation of ACP 731. Additional minimum 32 hours per week. Conducted at affiliated hospital school of nurse anesthesia or affiliated clinical sites. Spring.

1.11. Graduate Program Revision: Doctor of Nurse Anesthesia Practice**1.11.1. Change program to the following:**

The Doctor of Nurse Anesthesia Practice (DNAP) program is a practice doctorate for bachelor's prepared nurses to become DNAP-prepared certified registered nurse anesthetists (CRNAs) (DNAP: Entry-level Specialization) and an advanced program for master's level practicing CRNAs to become DNAP-prepared practitioners (DNAP: Advanced Specialization), and to expand their background in areas of biology and anesthesia specific to their discipline. The program focuses on use of critical thinking skills and analyses to evaluate clinical practice, health care, and patient safety; and analyze biological research and incorporate

knowledge from biological systems into clinical practice. The DNAP prepares CRNAs for positions of leadership and management, patient care, and nurse anesthesia education. The CCSU practice doctorate program courses will use a mixture of hybrid and on-campus classes.

DNAP: Entry-level Specialization 81-87 credits (3 years, including doctoral capstone)

I. Biological Systems Core (27 credits)

CHEM 550 Basic Organic and Biological Chemistry 3

BIO 500 Seminar in Biology 2

BIO 517 Human Anatomy, Physiology, and Pathophysiology 6

BIO 518 Pathophysiology and Applied Physiology 3

BIO 519 Advanced Neuroscience 3

BIO 528 Pharmacology 4

BIO 530 Immunology 3

BIO 598 Research in Biology 3

II. Professional Core (21 credits)

BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists 3

BIO 725 Bioethics in Nurse Anesthesia 3

BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3

BIO 736 Evidence-based Practice and Biostatistics 3

BIO 739 Advanced Topics in Pharmacology 3

BIO 742 Advanced Topics in Nurse Anesthesia 3

BIO 740 Leadership in Nurse Anesthesia Education 3

III. Anesthesia Clinical Core (27 credits)

ANES 500 Basic Principles of Nurse Anesthesia Practice 3

ANES 501 Advanced Principles of Nurse Anesthesia Practice I 3

ANES 502 Advanced Principles of Nurse Anesthesia Practice II 1

ANES 510 Physics in Anesthesia 1

ANES 515 Professional Aspects of Nurse Anesthesia Practice 3

ANES 528 Anesthesia Pharmacology 2

ANES 590 Clinical Correlation Conference 2

ACP 730 Anesthesia Clinical Practicum I 1

ACP 731 Anesthesia Clinical Practicum II 1

ACP 732 Anesthesia Clinical Practicum III 1

ACP 733 Advanced Anesthesia Clinical Practicum I 3

ACP 734 Advanced Anesthesia Clinical Practicum II 3

ACP 735 Advanced Anesthesia Clinical Practicum III 3

IV. Capstone 6 credits

Doctoral Comprehensive Exam

BIO 745 Doctoral Capstone Project I 3

BIO 746 Doctoral Capstone Project II 3

BIO 747 Doctoral Capstone Project III (if needed) 1

DNAP: Advanced Specialization 33-42 credits (Part-time: 2 years, including doctoral capstone)

I. Biological Systems and Professional Core (18-21 credits)

BIO 725 Bioethics in Nurse Anesthesia 3

BIO 730 Human Factors and Patient Safety for Nurse Anesthetists 3

BIO 736 Evidence-based Practice and Biostatistics 3

BIO 739 Advanced Topics in Pharmacology 3

BIO 742 Advanced Topics in Nurse Anesthesia 3

BIO 740 Leadership in Nurse Anesthesia Education 3

BIO 525 Advanced Physical Health Assessment for Nurse Anesthetists (if needed) 3

II. Anesthesia Clinical Core (9 credits)

ACP 733 Advanced Anesthesia Clinical Practicum I 3

ACP 734 Advanced Anesthesia Clinical Practicum II 3

ACP 735 Advanced Anesthesia Clinical Practicum III 3

III. Capstone 6 credits

BIO 745 Doctoral Capstone Project I 3

BIO 746 Doctoral Capstone Project II 3

BIO 747 Doctoral Capstone Project III (if needed) 1

2. Biomolecular Sciences**2.1. Undergraduate Course Addition: BMS 480 Emergency Medical Services Instructor****2.1.1. Create course as follows:**

BMS 480 Emergency Medical Services Instructor 4

Prereq.: BMS 380 or equivalent, and current CT EMT certification. Examination of principles and practices related to teaching and learning in emergency medical services. Emphasizes application of pedagogical and andragogical theory and research applicable to the instruction of pre-hospital emergency medical services professionals who instruct Emergency Medical Responders (EMR), Emergency Medical Technicians (EMT) and others emergency medical professionals. 25 hours of clinical field teaching experience required. Successful completion leads to Connecticut Office of Emergency Medical Services certification as an Emergency Medical Services Instructor. Irregular.

3. Chemistry**3.1. Undergraduate Course Revision: CHEM 320 Biophysical Chemistry**

3.1.1. Change prerequisite to the following: PHYS 122 or 126 (either may be taken concurrently), CHEM 212, MATH 152

3.1.2. Change cycling from "Spring (E)" to "Fall."

3.2. Undergraduate Course Revision: CHEM 321 Physical Chemistry of Thermodynamics & Kinetics

3.2.1. Change prerequisite to the following: PHYS 126 (may be taken concurrently), CHEM 212, CHEM 301, MATH 221.

3.3. Undergraduate Course Revision: CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics

3.3.1. Change prerequisite only: PHYS 126 (may be taken concurrently), CHEM 212, CHEM 301, MATH 221.

3.4. Undergraduate Course Revision: CHEM 455 Biochemistry Laboratory**3.4.1. Change course to the following:**

CHEM 455 Biochemistry Laboratory 1

Prereq.: CHEM 213 and either CHEM 354 or BMS 496. Experimental work in Biochemistry. One three-hour laboratory period per week. Spring.

3.5. Undergraduate/Graduate Course Revision: CHEM 432 Chemistry Seminar**3.5.1. Revise course as follows:**

(1) change prerequisite to: "CHEM 320 or 321 or 322"

(2) delete Graduate credit

3.6. Undergraduate/Graduate Course Revision: CHEM 459 Bioinorganic Chemistry

3.6.1. Revise course as follows: change prerequisite to "CHEM 354 or BMS 496"

3.7. Undergraduate/Graduate Course Revision: CHEM 460 Inorganic Symmetry & Spectroscopy**3.7.1. Revise course as follows:**

(1) change prerequisite to: "CHEM 320 or 321 or 322"

(2) delete Graduate credit

3.8. Undergraduate/Graduate Course Revision: CHEM 461 Descriptive Inorganic Chemistry**3.8.1. Revise course as follows:**

(1) change prerequisite to: "CHEM 320 or 321 or 322"

(2) delete Graduate credit

3.9. Undergraduate/Graduate Course Revision: CHEM 462 Inorganic Chemistry Laboratory**3.9.1. Revise course as follows:**

(1) change prerequisite to: "CHEM 316"

(2) delete Graduate credit

3.10. Undergraduate Program Revision: Major in Chemistry, B.S.

3.10.1. Revise program to the following:**Chemistry Core (27 credits)**

CHEM 161 General Chemistry I 3
CHEM 162 General Chemistry I Lab 1
CHEM 163 General Chemistry II 3
CHEM 164 General Chemistry II Lab 1
CHEM 210 Organic Chemistry I 3
CHEM 211 Organic Chemistry I Lab 1
CHEM 212 Organic Chemistry II 3
CHEM 213 Organic Chemistry II Lab 1
CHEM 238 Introduction to Research 1
CHEM 301 Analytical Chemistry 4
CHEM 316 Spectrometric Identification of Organic Compounds 3
CHEM 432 Chemistry Seminar 2
CHEM 438 Undergraduate Research 1

BS in Chemistry

Chemistry Core plus 10 credits selected from the following.

Choose 3 credits from:

CHEM 354 Biochemistry

OR

CHEM 406 Environmental Chemistry

OR

CHEM 485 Topics in Chemistry

Choose 3 credits from:

CHEM 320 Biophysical Chemistry

OR

CHEM 321 Physical Chemistry of Thermodynamics & Kinetics

OR

CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics

Choose 4 credits from:

CHEM 402 Instrumental Methods in Analytical Chemistry

OR

Choose 3 credits from:

CHEM 460 Inorganic Symmetry & Spectroscopy

OR

CHEM 461 Descriptive Inorganic Chemistry

WITH

1 additional credit from:

CHEM 323 Physical Chemistry Lab

OR

CHEM 455 Biochemistry Lab

OR

CHEM 462 Inorganic Chemistry Lab

Related Requirements (16 credits):

PHYS 121 OR 125 General OR University Physics I 4

PHYS 122 OR 126 General OR University Physics II 4

MATH 119 Pre-Calculus with Trigonometry 4

MATH 152 Calculus I 4

A minor is not required for this major.

BS in Chemistry (American Chemical Society accredited)

This program is designed for students wishing to go on to graduate-level studies in chemistry.

Chemistry Core plus 22 credits as follows:

CHEM 321 *Physical Chemistry of Thermodynamics & Kinetics* 3
CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics 3
CHEM 323 Physical Chemistry Lab 1
CHEM 354 Biochemistry 3
CHEM 402 Instrumental Methods in Analytical Chemistry 4
CHEM 455 Biochemistry Lab 1
CHEM 460 Inorganic Symmetry & Spectroscopy 3
CHEM 461 Descriptive Inorganic Chemistry 3
CHEM 462 Inorganic Chemistry Lab 1

Related Requirements (19-20 credits)

PHYS 125 University Physics I 4

PHYS 126 University Physics II 4

MATH 152 Calculus I 4
MATH 221 Calculus II 4

The student must also complete one additional course from the following approved list:

MATH 218 Discrete Mathematics 4
MATH 222 Calculus III 4
MATH 226 Linear Algebra and Probability for Engineers 4
MATH 228 Introduction to Linear Algebra 4
CS 151 Computer Science I 3

A minor is not required for this major.

3.11. Undergraduate Program Revision: Major in Biochemistry, B.S.

3.11.1. Revise program to the following:

The BS in biochemistry program provides a strong foundation in both molecular biology and chemistry and is based on faculty, facilities, and research resources in both the Department of Biomolecular Sciences and the

Department of Chemistry and Biochemistry. In addition to in-class laboratory instruction, this interdepartmental program emphasizes independent student research carried out under the guidance of a faculty member from either department. This program is designed to prepare students for careers or advanced study in molecular biology, biochemistry, or health-related fields.

Program

Major in Biochemistry, BS (Non-teaching, 56-58 credits)

Biochemistry Core Requirements (37 credits)

BMS 102 Introduction to Biomolecular Science 3
BMS 103 Introduction to Biomolecular Science Laboratory 1
BMS 190 Introduction to Research I 0.5
BMS 201 Principles of Cell and Molecular Biology 4
BMS 290 Introduction to Research II 0.5
CHEM 161 General Chemistry I 3
CHEM 162 General Chemistry I Laboratory 1
CHEM 163 General Chemistry II 3
CHEM 164 General Chemistry II Laboratory 1
CHEM 301 Analytical Chemistry 4
CHEM 210 Organic Chemistry I 3
CHEM 211 Organic Chemistry I Laboratory 1
CHEM 212 Organic Chemistry II 3
CHEM 213 Organic Chemistry II Laboratory 1
CHEM 316 Spectrometric Identification of Organic Compounds 3
CHEM 320 Biophysical Chemistry 3
CHEM 432 Chemistry Seminar 2

Directed Electives (10 -12 credits)

One course chosen from:

BMS 306 Genetics 4
BMS 307 Genomics 4
BMS 311 Cell Biology 4
BMS 316 Microbiology 4

and 6-8 additional credits chosen from the 300-level BMS courses listed above or from the following:

BMS 415 Advanced Exploration in Cell, Molecular, and Physiological Biology 3
BMS 490 Topics in Biomolecular Sciences 3
BMS 495 Capstone in Molecular Biology 4
CHEM 456 Toxicology 3

Research Requirements (2 credits)

Two credits of research chosen from any of BMS 390, 491, CHEM 238, or 438 (although a two-semester sequence of BMS 390 and 491, or CHEM 238 and 438 is strongly encouraged). BMS 391 (Internship in biomolecular sciences, 1-3 credits) may be used as a substitution for part or all of the independent research requirement.

Capstone Courses (7 credits)

CHEM 458 Advanced Biochemistry 3
CHEM 455 Biochemistry/Laboratory 1

and one of the following courses:

BMS 496 Capstone in Biosynthesis, Bioenergetics, and Metabolic Regulation 3
OR
CHEM 354 Biochemistry 3

Related Requirements (12 credits)

MATH 152 Calculus I 4
PHYS 121 OR 125 General OR University Physics I 4
PHYS 122 OR 126 General OR University Physics II 4

Students must also maintain a student portfolio (see below). These related requirement courses may also be

counted to fulfill appropriate portions of the student's general education program. No minor is required for this major.

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 academic study, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all completed independent study projects, and writing samples from CHEM 432. To fulfill the portfolio requirement, the student portfolio must be reviewed with one or more faculty members:

As a course requirement in BMS 190 and 290;

As a required component of independent student research projects; and

Prior to graduation, as evidenced by submission of a Portfolio Requirement Completed form to the chair of the Department of Biomolecular Sciences.

500-Level Course Options

Undergraduate students who use the form, Enrollment in 500 Level Courses by Undergraduates, and who have at least 90 credits and a cumulative GPA of 3.00 or higher may (with the approval of the advisor, instructor, appropriate department chair and dean, School of Graduate Studies, and with appropriate prerequisites) substitute either of the following 500-level BMS courses for BMS courses listed in the directed elective portion of the major program, and the following CHEM course in place of one of the 400-level CHEM courses listed in the directed elective portion of the major program:

BMS 562 Developmental Biology 3

BMS 570 Advanced Genetics 3

CHEM 551 Topics in Biochemistry 3

BS in Biochemistry (American Chemical Society accredited) (58 credits)

Biochemistry Core Requirements (37 credits)

BMS 102 Introduction to Biomolecular Science 3

BMS 103 Introduction to Biomolecular Science Laboratory 1

BMS 190 Introduction to Research I 0.5

BMS 201 Principles of Cell and Molecular Biology 4

BMS 290 Introduction to Research II 0.5

CHEM 161 General Chemistry I 3

CHEM 162 General Chemistry I Laboratory 1

CHEM 163 General Chemistry II 3

CHEM 164 General Chemistry II Laboratory 1

CHEM 301 Analytical Chemistry 4

CHEM 210 Organic Chemistry I 3

CHEM 211 Organic Chemistry I Laboratory 1

CHEM 212 Organic Chemistry II 3

CHEM 213 Organic Chemistry II Laboratory 1

CHEM 316 Spectrometric Identification of Organic Compounds 3

CHEM 320 Biophysical Chemistry 3

CHEM 432 Chemistry Seminar 2

Biochemistry Core plus an additional 8 credits in Chemistry

CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics 3

CHEM 323 Physical Chemistry Lab 1

CHEM 402 Instrumental Methods in Analytical Chemistry 4

Directed Electives (4 credits)

One course chosen from:

BMS 306 Genetics 4

BMS 307 Genomics 4

BMS 311 Cell Biology 4

BMS 316 Microbiology 4

Research Requirements (2 credits)

CHEM 238* Introduction to Research 1

CHEM 438** Undergraduate Research 1

*BMS 390 may be substituted

**BMS 491 may be substituted

Capstone Courses (7 credits)

CHEM 354 Biochemistry 3

CHEM 458 Advanced Biochemistry 3

CHEM 455 Biochemistry/Laboratory 1

Related Requirements (16 credits)

MATH 152 Calculus I 4

MATH 221 Calculus II 4

PHYS 125 University Physics I 4

PHYS 126 University Physics II 4

Students must also maintain a student portfolio (see below). These related requirement courses may also be counted to fulfill appropriate portions of the student's general education program. No minor is required for this major.

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 academic study, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all completed independent study projects, and writing samples from CHEM 432. To fulfill the portfolio requirement, the student portfolio must be reviewed with one or more faculty members:

As a course requirement in BMS 190 and 290;

As a required component of independent student research projects; and

Prior to graduation, as evidenced by submission of a Portfolio Requirement Completed form to the chair of the Department of Biomolecular Sciences.

500-Level Course Options

Undergraduate students who use the form, Enrollment in 500 Level Courses by Undergraduates, and who have at least 90 credits and a cumulative GPA of 3.00 or higher may (with the approval of the advisor, instructor, appropriate department chair and dean, School of Graduate Studies, and with appropriate prerequisites) substitute either of the following 500-level BMS courses for BMS courses listed in the directed elective portion of the major program, and the following CHEM course in place of one of the 400-level CHEM courses listed in the directed elective portion of the major program:

BMS 562 Developmental Biology 3

BMS 570 Advanced Genetics 3

CHEM 551 Topics in Biochemistry 3

4. Computer Electronics and Graphics Technology

4.1. Undergraduate Course Revision: CET 223 Basic Electrical Circuits

4.1.1. Revise course as follows:

CET 223 Basic Electrical Circuits 3

Prereq.: PHYS 111 and either MATH 115 or MATH 119 (either with C- or higher) or math placement exam.

Operation of DC circuits including voltage, current, resistance, power, electromagnetism, capacitance, inductance, and basic theorems. Laboratory experiments involve building circuits and using instruments to measure quantities. Three hours lecture and two hours laboratory, course meets five hours per week. No credit given to those with credit for CET 236.

4.2. Undergraduate Course Revision: CET 236 Circuit Analysis

4.2.1. Revise course as follows:

CET 236 Circuit Analysis 3

Prereq.: ENGR 150 or ROBO 110, and either MATH 135 or MATH 152, and either PHYS 122 or PHYS 126.

Basic concepts and laws, methods of analysis and circuit theorems in DC and AC circuits. Topics include voltage, current, power, resistance, capacitance, inductance, node analysis, mesh analysis, Thevenin's theorem, Norton's theorem, phasors, transfer functions, steady state and transient analysis. Laboratory experiments involve building circuits, using instruments to measure quantities and observe phenomena. Three hours lecture and two hours laboratory, course meets five hours per week.

4.3. Undergraduate Course Revision: CET 346 Signals & Systems

4.3.1. Revise course as follows:

CET 346 Signals & Systems 3

Prereq.: CET 236, and either MATH 136 or MATH 221, and either PHYS 122 or PHYS 126. Signal representation, applications of Fourier series, Fourier transform, Laplace transform, and Z-transform in the analysis of circuits and systems. Three hours lecture and two hours laboratory, course meets five hours per week. Spring.

4.4. Undergraduate Course Revision: GRT 352 Graphic Typology

4.4.1. Revise course as follows:

GRT 352 Color Management & Analysis 3

Prereq.: GRT 112 and 242. Scientific study of color, perception and measurement principles, protocol for tolerances and targeting, and quality control practices of graphic color systems. Emphasis on the connection of color science to the graphic industry and state-of-the-art measurement equipment and software. Students will deploy color profiling, color management, color targeting and tolerance development to industry relevant applications. Two hour lecture and two hour laboratory, course meets four hours per week. Spring.

5. Counseling and Family Therapy

5.1. Graduate Program Revision: Master of Science in Counselor Education with Specialization in School Counseling

5.1.1. Revise program as follows:

(1) add "CNSL 505 Counseling and Human Development Across the Lifespan 3" into the list of core courses

(2) change number of credits for the program from "48-51" to "51-54"

5.2. Graduate Program Revision: Master of Science in Counselor Education with Specialization in Professional and Rehabilitation Counseling

5.2.1. Revise program as follows:

(1) add "CNSL 505 Counseling and Human Development Across the Lifespan 3" into the list of core courses

(2) delete "PSY 530 Psychopathology"

5.3. Graduate Course Addition: MFT 510 Intensive In-home Evidence-Based Models in Family Therapy

5.3.1. Create course as follows:

MFT 510 Intensive In-home Evidence-Based Models in Family Therapy 3

Prereq.: MFT 541 or permission of instructor. Introduction to definitions and competencies connected with

Evidence-Based Practice (EBP); overview of the history, theoretical foundations, and implementation of several evidence-based in-home family treatment models. Training in the theory and practice of treatment models; and hands-on training exercises with specific treatment tools. Cross-listed with CNSL 510. No credit given to students with credit for CNSL 510. Spring.

CNSL 510 Intensive In-home Evidence-Based Models in Family Therapy 3

Prereq.: MFT 541 or permission of instructor. Introduction to definitions and competencies connected with Evidence-Based Practice (EBP); overview of the history, theoretical foundations, and implementation of several evidence-based in-home family treatment models. Training in the theory and practice of treatment models; and hands-on training exercises with specific treatment tools. Cross-listed with MFT 510. No credit given to students with credit for MFT 510. Spring.

5.4.1. Graduate Program Addition: Official Certificate Program in School-Based Marriage and Family Therapy

5.4.1. Create program as follows:

Official Certificate Program in School-Based Marriage and Family Therapy (12 credits)

The OCP in School-based Marriage and Family Therapy provides a course of study for post-graduate students who wish to complete requirements for a Provisional Educator Certificate in Marriage and Family Therapy through the State of CT Department of Education.

Degree Requirements

ED 515 - School Law 3

MFT 592 - School-based Family Counseling 3

MFT 593 - School-Based Marriage and Family Therapy Practicum and Seminar I 3

MFT 594 - School-Based Marriage and Family Therapy Practicum and Seminar II 3

Once courses are completed, students will need to apply for certification with the State Department of Education (SDE). They must provide proof of completing the Praxis I exam or evidence of waiver. They may also be required by the SDE to complete other related courses (e.g. Special Education for the Exceptional Learner and Human Development); these other related courses may be taken at other institutions or as part of their Master's program.

6. Economics

6.1. Undergraduate Course Addition: ECON 308 Political Economy

6.1.1. Create course as follows:

ECON 308 Political Economy 3

Prereq.: ECON 200 and ECON 201. Critical examination of the history and evolution of U.S. capitalism. Traditional and alternative approaches, with an emphasis on class analysis and current controversies in economic theory and policy making. Fall.

6.2. Undergraduate/Graduate Course Revision: ECON 499 Independent Study in Economics

6.2.1. Revise course as follows: change number of credits from "3 or 6" to "1 TO 3"

6.3. Undergraduate Program Revision: Major in Economics, B.A. (30 credits)

6.3.1. Revise program as follows:

Core (15 credits)

ECON 200 Principles of Economics I 3

ECON 201 Principles of Economics II 3

ECON 300 Macroeconomics 3

ECON 305 Microeconomics 3

ECON 308 Political Economy 3

And 15 credits of ECON electives.

In addition, students must take the following:

MATH 125 Applied Calculus 3

STAT 215 Statistics for Behavioral Sciences 3

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7. English

7.1. Undergraduate Course Deletion: ENG 386 The Language of Film

7.2. Undergraduate Course Addition: ENG 467 Hitchcock (cross-listed with CINE 467)

7.2.1. Create courses as follows:

ENG 467 Hitchcock 3

Prereq.: ENG 110. Chronological survey of the films of Alfred Hitchcock. Analysis of secondary literature in conjunction with each film. Emphasis on both critical and cultural theory, including the work of Freud, Lacan and Žižek. Cross-listed with CINE 467. No credit given to students with credit for CINE 467. Irregular.

CINE 467 3

Prereq.: ENG 110. Chronological survey of the films of Alfred Hitchcock. Analysis of secondary literature in conjunction with each film. Emphasis on both critical and cultural theory, including the work of Freud, Lacan and Žižek. Cross-listed with ENG 467. No credit given to students with credit for ENG 467. Irregular.

7.3. Undergraduate Program Revision: Minor in Cinema Studies

7.3.1. Revise program as follows:

Program Overview

The interdisciplinary minor in cinema studies is for students interested in developing a critical understanding of the moving image. Audio-visual media play a dominant role in our culture and in our lives, and this course of study will provide students with the skills to create, understand, and interpret various forms of the moving image. The minor is multidisciplinary in method (drawing on courses from different departments in the university) and multicultural in scope as it seeks to look at media in an international and cross-cultural context. This course of study regards cinema as an art form, as social practice, and as cultural artifact. Courses in the minor cover the history, theory, criticism, and practice of the moving image, with the aim of creating active and critical viewers of films and other audio-visual texts.

The curriculum for cinema studies may include coursework in film history, production, film theory, national cinemas, genre studies, authorship, visual culture, history, philosophy, and aesthetics. All courses in the curriculum are devoted primarily to study or production of the moving image. A rigorous curriculum will be grounded first of all in a basic understanding of production along with cinema history and theory. Students may then elect to focus on production courses, critical studies courses, or a combination of both.

Program

Minor in Cinema Studies (18 credits)

Cinema Studies Requirements

COMM 330 Basic Video Production 3
and
CINE 201 The Language of Film 3
or
COMM 220 Introduction to History of Film 3

Production Electives

COMM 427 Television Programming and Production 3
COMM 428 Advanced TV Production 3
COMM 480 Television Documentary Production 3
COMM 495 Special Topics: Scriptwriting 3

Electives in Critical Studies

CINE 201 The Language of Film 3
CINE/COMM 220 Introduction to History of Film 3
CINE/HUM 270 Studies of World Culture Through Cinema 3
CINE/COMM 319 Filmic Narrative 3
CINE 350 Laughter, Blood, and Tears: Studies in Film Genre 3
CINE 365 Nonfiction & Documentary Film 3
CINE/COMM 380 Women and Film 3

CINE/COMM 382 American Cinema 3
 CINE/ENG 460 Shakespeare and Film 3
 CINE/ENG 465 Global Cinema 3
 CINE/ENG 466 American Cinema in the 60s and 70s 3
 CINE/ENG 467 Hitchcock 3
 CINE 480 Topics in Cinema Studies 3
 CINE/ENG 489 Studies in Film Adaptation 3
 CINE 490 Cinema Studies: Independent Study 3
 COMM 495 Special Topics: Popular Film & Politics 3
 HIST 476 African History through Film 3
 PES 111 War & Peace through Film 3
 HUM 290 German Culture through Film 3

8. Geography

8.1. Undergraduate Course Addition: GEOG 480

8.1.1. Create course as follows:

GEOG 480 Topics in GIS 3

Prereq.: GEOG 378 or permission of instructor. Selective topics in Geographic Information Science. May be repeated with different topics for a maximum of 6 credits. Irregular.

8.2. Graduate Course Revision: GEOG 518

8.2.1. Revise course as follows:

Sentence in description to be revised: "This is a link course with GEOG 441, GEOG 445, GEOG 466, GEOG 476, GEOG 478, and GEOG 479."

Revised version: "This is a link course with GEOG 441, GEOG 445, GEOG 466, GEOG 476, GEOG 478, GEOG 479, and GEOG 480."

8.3. Undergraduate Program Revisions: Minor in Geographic Information Sciences, Major in Geography with Specialization in Geographic Information Science, BA, Major in Geography with Specialization in Environmental Geography, BA

8.3.1. Revise all three programs as follows: add GEOG 480 to the list of electives, place it immediately after GEOG 479 in all three programs

8.4. Undergraduate Program Revision: Major in Geography with Specialization in General/Regional Geography, BA

8.4.1. Revise program as follows: add "GEOG 481 Topics in Regional Geography 3" to the list of electives, place it immediately after GEOG 459 at the bottom of the list of courses

9. History

9.1. Undergraduate/Graduate Course Addition: HIST 495 Advanced Topics in History

9.1.1. Create course as follows:

HIST 495 Advanced Topics in History 3

Prereq.: Admission to the M.A. in History or the M.A. in Public History, and permission of Department Chair. Must be cross-listed with a 400-level History course (may not be cross-listed with HIST 403, 404, 405, 490, 492, 493, or 494). May be repeated with different topics for a maximum of six credits. [GR]

9.2. Undergraduate/Graduate Course Revisions: delete Graduate credit from all 400-level HIST courses (except 495)

9.3. Graduate Program Revision: M.A. in History

9.3.1. Revise M.A. as follows: change "No more than nine credits can be taken at the 400-level" to "No more than six credits can be taken at the 400-level."

9.4. Graduate Program Revision: M.A. in Public History

9.4.1. Revise M.A. as follows: change "No more than nine credits can be taken at the 400-level" to "No more than six credits can be taken at the 400-level."

10. Management and Information Systems

10.1. Undergraduate Course Revision: MC 207 Managerial Communications

10.1.1. Revise course as follows: change course title from "Managerial Communications" to "Managerial Communication I"

10.2. Undergraduate Course Addition: MC 307 Managerial Communications II

10.2.1. Create course as follows:

MC 307: Managerial Communication II 3

Prereq.: ENG 110, MC 207, and sophomore standing. For Business majors and minors only. Study and

development of advanced business correspondence, reports, and communication systems for tactical and strategic business executives. Spring.

11. Manufacturing and Construction Management

11.1. Graduate Program Revision: Master of Science in Technology Management

11.1.1. Revise program as follows: change "core curriculum" from this:

TM 500 Product Life Cycle Management
 TM 510 Industrial Operations Management
 TM 551 Project Management
 TM 572 Innovative Leadership
 TM 594 Research in Methods Technology
 AC 521 Accounting and Performance Measurement for Lean Enterprises

to this:

TM 500 Product Life Cycle Management
 TM 510 Industrial Operations Management
 TM 551 Project Management
 TM 561 Applications of Lean Principles
 TM 572 Innovative Leadership
 TM 594 Research in Methods Technology

12. Modern Languages

12.1. Undergraduate/Graduate Course Revision: FR 441 Advanced Oral Practice

12.1.1. Revise course as follows: remove Graduate credit only

12.2. Graduate Course Deletions:

12.2.1. Delete all of the following courses: FR 510, 521, 532, 553, 561, 573, 588, 599

13. Music

13.1. Undergraduate Course Revision: MUS 315 Choral Music Methods

13.1.1. Revise course as follows:

MUS 315 Choral Music Methods 4
 Prereq.: MUS 101 (C- or higher) and 310 (C or higher), and admission to the professional program in Music Education. Coreq.: MUS 311, SPED 315, and EDSC 425. Organization, aims, methods and supervision of school vocal programs and choral organizations in elementary, middle and high schools. Discussion of special problems of choral conducting and the selecting of choral materials and repertoire for students in grades 4-12. Field experience required (20 hours). CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class. Spring.

13.2. Undergraduate Course Revision: MUS 316 Instrumental Music Methods

13.2.1. Revise course as follows:

MUS 316 Instrumental Music Methods 4
 Prereq.: MUS 101 (C- or higher) and MUS 310 (C or higher), and admission to the professional program in Music Education. Coreq.: MUS 311, SPED 315 and EDSC 425. Organization, aims, methods, and supervision of school instrumental programs and instrumental organizations. Discussion of special problems of instrumental conducting and the selecting of instrumental materials and repertoire appropriate for students in grades 4-12. Field experience required (20 hours). CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class. Spring.

13.3. Undergraduate Program Revision: Major in Music, B.A.

13.3.1. Revise program as follows:

(1) under "Specialization in General Studies" add "MUS 350 Piano Class III 2, and MUS 351 Piano Class IV 2" after "MUS 251 Piano Class II 2" and before "or pass piano proficiency exam"

(2) reduce the number of "Music electives" from "9-13" to "5-13"

13.4. Undergraduate Program Revision: Minor in Music

13.4.1. Revise program as follows:

Students planning to minor in music must consult the department chair for advisement.

Required: Three (3) credits as follows

MUS 109 Fundamentals of Music 3
 or
 MUS 121/115 Music Theory I Aural Skills I 3

A Six (6) credits from:

A. Six (6) credits from:

MUS 100 Search in Music 3
 MUS 110 Listening to Classical Music 3
 MUS 111 Music of the World's People 3
 MUS 113 History of Jazz 3
 MUS 116/122 Music Theory and Aural Skills II 3
 MUS 214 Electro-acoustic Music and Sonic Art 3

Nine (9) credits required from at least two of the following categories (B, C, or D):

B. Two-four (2-4) credits from:

MUS 250 Piano Class I 2
 MUS 251 Piano Class II 2
 MUS 264 Voice Class 2
 MUS 273 Jazz Improvisation I 2
 MUS 274 Jazz Improvisation II 2
 MUS 350 Piano Class III 2
 MUS 351 Piano Class IV 2

C. Three-five (3-5) credits from: (the same course may be repeated for credit)

MUS 140 Ensembles 1
 MUS 141 Chorus 1
 MUS 142 Band 1
 MUS 143 Sinfonietta 1
 MUS 144 Marching Band 1
 MUS 147 Jazz Bands 1
 MUS 148 University Singers 1
 MUS 149 University Chamber Players 1
 MUS 177 Applied Music 1

Note: Students enrolled in MUS 177 must pay an extra fee of \$200 each semester.

D. Three to Five (3-5) credits from:

MUS 112 Computer Applications to Music 3
 MUS 114 Introduction to Music Technology 1
 MUS 380 Advanced Notation, Sequencing, and Sound Synthesis 2

13.5. Undergraduate Program Revision: Major in Music Education, B.S. (Certifiable for PK-12 teaching)

13.5.1. Revise Program as follows:

CORE (25 credits):

MUS 114 Introduction to Music Technology 1
 MUS 115 Aural Skills I 1
 MUS 116 Aural Skills II 1
 MUS 121 Music Theory I 2
 MUS 122 Music Theory II 2
 MUS 211 Ethnomusicology 3
 MUS 215 Aural Skills III 1
 MUS 216 Aural Skills IV 1
 MUS 221 Music Theory III 2
 MUS 222 Music Theory IV 2
 MUS 235 Music History I 3
 MUS 236 Music History II 3
 MUS 335 Music History III 3

REQUIRED (32 credits):

MUS 269 Technology in Music Education 1
 MUS 367 Choral Conducting 2
 MUS 368 Instrumental Conducting 2
 MUS 390 Orchestration 2

Six semesters of:

MUS 141 Chorus 1
 or
 MUS 142 Band 1
 or
 MUS 143 Sinfonietta 1

Five of the six following:

MUS 259 Vocal Methods 1
 MUS 261 Woodwind Methods 1
 MUS 262 Brass Methods 1
 MUS 263 Percussion Methods 1
 MUS 267 String Methods: Violin and Viola 1
 MUS 268 String Methods: Cello and Double Bass 1

Seven semesters of:

MUS 178 Applied Music for Majors I 2
 MUS 278 Applied Music for Majors II 2

MUS 378 Applied Music for Majors III 2
 MUS 478 Applied Music for Majors IV 2

Professional Education Requirements (34 credits)

MUS 101 Practicum in Music Education 2
 MUS 310 General Music Education, Part I (Grades PK-4) 3
 MUS 311 General Music Education, Part II (Grades 5-12) 3
 MUS 315 Choral Music Methods 4
 or
 MUS 316 Instrumental Music Methods 4
 MUS 402 Student Teaching Seminar 1
 EDF 415 Educational Foundations 3
 EDSC 420 Student Teaching - Elementary Music Education 4.5
 EDSC 421 Student Teaching - Secondary Music Education 4.5
 EDSC 425: Principles & Evaluation of Secondary Education 3
 EDTE 314 Applied Learning Theories (K-12 Programs) 3
 SPED 315 Introduction to Educating Learners with Exceptionalities 3
 General Education Requirements

Students in this program must take the following as part of their general education requirements:

HIST 161 American History to 1877 3
 or
 HIST 162 American History from 1877 to Present 3
 PSY 236 Life-Span Development 3
 PHYS 113 The Sound of Music 3
 ENG 110 Freshman Composition 3
 Note: This major does not require a minor.

Note: Students enrolled in MUS 177 must pay an extra fee of \$300 each semester. Students enrolled in MUS 178, 278, 378, or 478 must pay an extra fee of \$400 each semester. This fee is non-refundable and subject to change. All students enrolled in MUS 178, 278, 378, or 478 must perform in one student recital per year.

All music majors are required to enroll in MUS 090 every semester except while enrolled in either EDSC 420/421 or MUS 400.

All students must be enrolled in a major ensemble every semester in which they are enrolled as full-time music majors except the semester they student teach. All part-time students must be enrolled in a major ensemble for six semesters. The Department of Music reserves the right to assign students to major ensembles.

All music majors (BA and BS candidates) must successfully complete all portions of the sophomore review, which includes a written theory test, sight-singing, and piano proficiency. No student will be allowed to proceed to a 300-level music course until the sophomore review has been successfully completed.

The piano proficiency exam may be taken a total of four times, and students must demonstrate a minimum of proficiency in each category to pass. Most students should begin taking this exam during their sophomore year. Three categories of the exam must be passed before acceptance into the professional program. All of the exam must be passed before beginning student teaching.

The piano proficiency exam consists of the following:

Playing major and harmonic minor scales (up to 4 sharps and flats), two octaves, hands together;
 Playing three intermediate-level pieces from the recommended list, including a chorale and a memorized piece;
 Harmonizing a simple melody;
 Transposing the same melody up or down a major/minor second; and
 Sight-reading a simple piano piece and an accompaniment.

14. Political Science

14.1. Undergraduate Course Addition: PS 250 Approaches to Political Science

14.1.1. Create course as follows:

PS 250 Approaches to Political Science 3
 Prereq.: PS 104 or 110, and open to majors only. Introduction to social research methods covering the foundations of social science, research design, data collection, and data analysis. Students will learn by doing in all aspects of the course—in class meetings, the computer lab, and out-of-class assignments. Emphasis on effective collection, analysis, and critical evaluation of quantitative and qualitative data. Spring.

14.2. Undergraduate Program Revision: Major in Political Science, B.A. (36 credits).

14.2.1. Revise program as follows:

Major in Political Science, B.A. (39 credits)
 Core (6 credits)
 PS 104 The World's Political Systems 3
 or
 PS 110 Introduction to Political Science 3

PS 110 American Government & Politics 3**PS 250 Approaches to Political Science 3**

Five Core Areas (3 credits in each, 15 credits total):

U.S. and state government and politics (230, 231, 315, 330, 430, 431);

Political theory (232, 334, 335, 433);

Comparative government (336, 380, 420, 421, 425, 434);

International relations and organization (235, 338, 345, 380, 439);

Public policy and law (241, 260, 270, 331, 332, 339, 445, 446, 448, 450).

Specialization (6 credits in one of the following specializations, at least 3 credits at the 300-400 level):

U.S. and state government, administration, and policy (230, 231, 260, 270, 331, 332, 430, 431, 439, 445, 446, 448);

Comparative and international politics (235, 336, 339, 345, 380, 420, 421, 425, 434);

Leadership, organizations, political behavior and methods (280, 315, 330, 338, 343, 415, 450, 460);

Political Theory (232, 334, 335, 433)

Electives (12 credits in Political Science)

At least 18 of the 39 credits for the Major must be taken at the 300-400 level.

Credits from internships may be used to meet up to 6 credits of the appropriate specialization requirement.

3 credits from History, Sociology, Psychology, Economics, Geography, Mathematics, or statistics may count towards the Major if approved in advance by the Chair of Political Science.

15. Psychology**15.1. Undergraduate Course Addition: GERO 495 Internship in Gerontology****15.1.1. Create course as follows:**

GERO 495 Internship in Gerontology 4

Prereq.: PSY 236 and permission of instructor. Seminar and internship in gerontology. Students participate in a classroom seminar on issues relevant to careers in aging and also work 120-140 hours for agencies or organizations providing a variety of services to older adults. Required for gerontology minors. Irregular.

16. Special Education**16.1. Graduate Program Revision: M.S. in Special Education for Students Already Certified (Strands A, B and C):** divide the M.S. into three M.S. degree programs with specializations (as the Department of Counseling and Family Therapy has done with their M.S.)**16.1.1. Master of Science in Special Education: Specialization for Teachers Seeking Cross Endorsement (42-43 credits)****Program Rationale:**

The Master of Science in Special Education: Specialization for Teachers Seeking Cross Endorsement is designed to prepare general education teachers to possess the knowledge, skills, and professional dispositions to develop effective teaching and learning environments for individuals with disabilities. Designed for students who have certification in elementary education or a 7-12 secondary subject certificate in biology, business, chemistry, earth science, English, history/social studies, mathematics, or physics, this Specialization leads to a master's degree and provides coursework that leads to a cross endorsement in Special Education. *Students in this Specialization must have a current Connecticut teaching certification.* The curriculum for this program is aligned with standards of the Council for Exceptional Children (CEC) and meets certification requirements of the Connecticut State Department of Education.

Program Learning Outcomes:

Students in this program will be expected to:

- * demonstrate knowledge of foundational issues in special education and their impact on the field;
- * demonstrate knowledge of the development and characteristics of learners, individual learning differences, and appropriate instructional strategies;
- * promote effective learning environments and social interactions for individuals with disabilities;
- * demonstrate knowledge of typical and atypical language development, cultural implications of language development, and alternative approaches to communication;
- * further their knowledge of instructional planning, assessment, and collaboration to address the learning differences of individuals with a wider variety of academic problems;
- * implement action research processes to contribute to improved special education services to individuals with disabilities; and
- * promote professional and ethical practices in the field of special education.

Core (21 credits):

SPED 532 Contemporary Issues in Special Education 3

SPED 511 Behavioral/Emotional Disorders 3

SPED 512 Learning Disabilities 3

SPED 513 Developmental Disabilities 3

SPED 514 Cognitive Behavior Management and Social Skills Strategies 3

SPED 515 Assessment in Special Education 3
 SPED 516 Instructional Programming for Students with Exceptionalities 3

Methods (6 credits):

SPED 517 Instructional Methods for Students with Special Needs—Elementary 3
 SPED 518 Instructional Methods for Students with Special Needs—Secondary 3

Student Teaching or Practicum (6-7 credits):

SPED 520 Seminar for Student Teachers 1
 SPED 521 Student Teaching in Special Education—Elementary 3
 SPED 522 Student Teaching in Special Education—Secondary 3
 (all three taken concurrently)

or

SPED 523 Practicum in Special Education—Elementary 3
 SPED 524 Practicum in Special Education—Secondary 3

Research and Capstone Requirements (9 credits):

SPED 598 Research in Special Education 3
 SPED 596 Designing Action Research in Special Education (Plan E) 3
 SPED 597 Implementing and Documenting Action Research in Special Education (Plan E) 3

16.1.2. Master of Science in Special Education: Specialization for Teachers Not Seeking Cross Endorsement (30 credits)

Program Rationale:

The Master of Science in Special Education is designed to prepare general education teachers to possess the knowledge, skills, and professional dispositions to develop effective teaching and learning environments for individuals with disabilities. This program track is designed for students who already hold teaching credentials in Connecticut. In this specialization students take course work designed to broaden and/or deepen their knowledge of the field. Completion of this program does not lead to a cross endorsement in special education. The curriculum for this program is aligned with the standards of the Council for Exceptional Children (CEC).

Program Learning Outcomes:

Students in this program will be expected to:
 demonstrate knowledge of historical foundations, classic studies, major contributors, and current issues related to special education; demonstrate knowledge of laws and policies that affect individuals with disabilities, their families, and their educational programming; promote practices that reduce the over-representation of culturally/linguistically diverse students in programs for individuals with disabilities; broaden and/or deepen their knowledge of individual learning differences, instructional strategies, and collaboration in special education; implement action research processes to contribute to improved special education services to individuals with disabilities; and promote professional and ethical practices in the field of special education.

Professional Education (6 credits):

SPED 532 Contemporary Issues in Special Education 3
 SPED 566 Legal and Administrative Issues in Special Education 3

Choose 6 credits from:

SPED 511 Behavioral/Emotional Disorders 3
 SPED 512 Learning Disabilities 3
 SPED 513 Developmental Disabilities 3

Electives (9 credits):

SPED 506 Foundations of Language for the Exceptional Child 3
 SPED 510 Inclusive Education 3
 SPED 536 Autism Spectrum Disorder 3
 SPED 560 Positive Classroom Management for Students Receiving Special Education Services 3
 SPED 578 The Juvenile Offender with Special Education Needs 3
 SPED 580 Collaborative Process in Special Education 3
 SPED 581 Assistive Technology in Special Education 3
 SPED 595 Topics in Special Education 1-3

Note: Other courses offered in the Department of Special Education may be substituted as they become available; i.e., special topics.

Research and Capstone Requirements (9 credits):

SPED 598 Research in Special Education 3
 SPED 596 Designing Action Research in Special Education (Plan E) 3
 SPED 597 Implementing and Documenting Action Research in Special Education (Plan E) 3

16.1.3. Master of Science in Special Education: Specialization for Special Education Teachers (30 credits)

Program Rationale:

This program is designed for students who already hold a certification in special education. In this specialization students take course work designed to broaden and/or deepen their knowledge of the field. The curriculum for this program is aligned with the standards of the Council for Exceptional Children (CEC).

Program Learning Outcomes:

Students in the program are expected to:

Students will demonstrate knowledge of historical foundations, classic studies, major contributors, and current issues related to special education. Students will demonstrate knowledge of laws and policies that affect individuals with disabilities, their families and their educational programming. Students will promote practices that reduce the over-representation of culturally/linguistically diverse students in programs for individuals with disabilities. Students will broaden and/or deepen their knowledge of individual learning differences, instructional strategies and collaboration in special education. Students will implement action research processes to contribute to improved special education services to individuals with disabilities. Students will promote professional and ethical practices in the field of special education.

Professional Education (6 credits):

SPED 532 Contemporary Issues in Special Education 3

SPED 566 Legal and Administrative Issues in Special Education 3

Electives (15 credits)

Students take 15 credits of advanced-level course work in special education. Up to 6 credits of related course work from other departments may be included at the advisor's discretion.

Research and Capstone Requirements (9 credits):

SPED 598 Research in Special Education 3

SPED 596 Designing Action Research in Special Education (Plan E) 3

SPED 597 Implementing and Documenting Action Research in Special Education (Plan E) 3

17. Theatre**17.1. Undergraduate Course Addition: TH 147 Theatre Workshop****17.1.2. Create course as follows:**

TH 147 Theatre Workshop 3

Project based studio class, in which the student is exposed to the various creative approaches involved in the making of a piece of theatre. The student (performer, director and designer) will apply research and methodology to the creation of three pieces during the semester: a traditional text-based piece, a piece adapted from literature not written for the stage, and a piece devised from original content or non-theatrical text. Each student will be required to work in at least one area outside of their intended area of study.

17.2. Undergraduate Program Revision: Major in Theatre, B.A. (34 credits)**17.2.1. Revise program as follows**

Major in Theatre, B.A. (40 credits)

The Major in Theatre, B.A. is composed of a Theatre Core (22 credits) and one Emphasis (18 credits).

Core (22 credits)

12 credits as follows:

TH 147 Theatre Workshop 3

TH 253 Script Analysis for the Stage 3

TH 375 History of Theatre I 3

TH 376 History of Theatre II 3

4 credits from the following (at least 1 credit in each):

TH 101 Performance Practicum 1 (may be taken 6 time)

TH 115 Play Production 1 (may be taken 6 times)

3 credits from the following:

TH 111 Stagecraft 3

TH 117 Lighting 3

TH 121 Costuming 3

and 3 credits from the following:

TH 145 Acting I 3

TH 146 High Impact 3

TH 148 Improvisation for the Classroom 3

Performance Emphasis (18 credits)

12 credits from the following:

TH 135 Voice I 3

TH 146 High Impact 3

TH 235 Movement 1 3

TH 246 Acting II 3

and 6 credits from the following:

TH 347 Acting III 3
TH 275 American Theatre Today 3
TH 338 Voice II 3
TH 352 Directing 3
TH 447 Acting IV 3
TH 456 Shakespeare in Performance 3
TH 489 Studies in Theatre/Drama 3
DAN 235 Movement for Performers 2
DAN 236 Principles of Choreography 2
DAN 151 Beginning Modern Dance 2
DAN 152 Beginning Ballet 1
DAN 157 Beginning Jazz Dance 1
DAN 252 Intermediate Ballet 1
DAN 257 Intermediate Jazz Dance 1
Design Tech Emphasis (18 credits)

18 credits from the following:

TH 111 Stagecraft 3
TH 117 Lighting 3
TH 121 Costuming 3
TH 222 History of Fashion 3
TH 217 Sceno-graphics 3
TH 211 Rendering and Drawing 3
TH 213 Scene Painting I 3
TH 251 Stage Management 3
TH 333 Period Styles 3
TH 316 Scene Design 3
TH 318 Lighting Design 3
TH 332 Costume Design 3
TH 334 Costume Construction 3
TH 489 Studies in Theatre 3

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