

## **REPORT: COMMITTEE ON CURRICULA AND COURSES**

(For consideration by the Faculty Senate at its November 2, 2016 meeting.)

Per the USC Policies and Procedures Manual - Academic Affairs section ACAF 2.00 and 2.03 Appendices, any department which has a proposal being recommended by the Committee on Curricula and Courses must have a representative in attendance at the Faculty Senate meeting in which said proposal is to be recommended.

Please contact Chair Kathleen Kirasic (Psychology) in advance of Faculty Senate meeting if errors are noted, either by phone: 777-4137 or e-mail: [kck@sc.edu](mailto:kck@sc.edu).

*(Please note: Unless noted, approvals are effective in the 2017--2018 Bulletin)*

### **1. COLLEGE OF ARTS AND SCIENCES**

#### **A. Department of Anthropology**

##### **New course**

ANTH 226      Biblical Archaeology. [=RELG 208] (3) The fundamental elements of human culture as it relates to biblical archaeology. The defining characteristics of different kinds of society through interdependency of language and culture. The affects of modern world interests in defining / redefining this area

##### **Change in course number**

From: ANTH 358      Gender and Culture. [=WGST 358] (3)

To:    ANTH 207      Gender and Culture. [=WGST 207] (3)

#### **B. Department of Biology**

##### **Change in title**

From: BIOL 635      Neurobiology. (4)

To:    BIOL 635      Neurophysiology. (4)

#### **C. Department of Jewish Studies**

##### **Change in course number, description**

From: JSTU 371      Visions of Apocalypse. [=RELG 371] (3) An exploration of the prophetic vision of last things. Cross-listed with RELG 371 FS: 2/4/2015

To:    JSTU 475      Visions of Apocalypse. [=RELG 475] (3) Symbolic visions, tours of heaven and hell,

cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations. Cross-listed with RELG 475

**D. Department of Mathematics**  
Mathemataics/ Changes to Minor

Existing

Changes

<p><b>DEPARTMENT OF MATHEMATICS</b>  <b>Minor for 2016-17</b></p> <p><b>Prerequisite Courses (8 hours)</b></p> <ul style="list-style-type: none"> <li>• Math 141 – Calculus I</li> <li>• Math 142 Calculus II</li> </ul> <p><b>Required Course (3 hours)</b></p> <ul style="list-style-type: none"> <li>• Math 241 – Vector Calculus</li> </ul> <p><b>Additional Courses (15 hours) selected from the following:</b></p> <ul style="list-style-type: none"> <li>• Math 242 - Elementary Differential Equations</li> <li>• Math 300 – Transition to Advanced Mathematics</li> <li>• Math 374 – Discrete Structures</li> <li>• And 500 level courses</li> </ul> <p><b>At least 6 of 15 hours must be selected from the following:</b></p> <ul style="list-style-type: none"> <li>• Math 520 – Ordinary Differential Equations</li> <li>• Math 526 – Numerical Linear Algebra</li> <li>• Math 544 – Linear Algebra</li> <li>• Math 546 – Algebraic Structures I</li> <li>• Math 544 – Analysis I</li> <li>• Math 574 – Discrete Mathematics I</li> </ul> <p>At most one of Math 526 and 544 may be used for minor credit</p>	<p><b>DEPARTMENT OF MATHEMATICS</b>  <b>Minor for 2017-18</b></p> <p><b>Prerequisite Courses (8 hours)</b></p> <ul style="list-style-type: none"> <li>• Math 141 – Calculus I</li> <li>• Math 142 Calculus II</li> </ul> <p><b>Required Course (3 hours)</b></p> <ul style="list-style-type: none"> <li>• Math 241 – Vector Calculus</li> </ul> <p><b>Additional Courses (15 hours) selected from the following, of which at least 6 hours must be at the 500 level:</b></p> <ul style="list-style-type: none"> <li>• Math 242 - Elementary Differential Equations</li> <li>• Math 300 – Transition to Advanced Mathematics</li> <li>• Math 344 – Applied Linear Algebra</li> <li>• Math 374 – Discrete Structures</li> <li>• Math courses at the 500 level</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• All courses for a minor must be completed with a C or better</li> <li>• At most one of Math 374 and 574 may be used for minor credit</li> <li>• At most one of Math 344, 526, and 544 may be used for minor credit</li> <li>• Most of the math courses at the 500 level have a prerequisite of 300 and/or 344 (or 544, which implicitly assumes completion of 300). Students are therefore strongly urged to include one or both of Math 300, 344 in their minor program.</li> <li>• Students with an interest in pure mathematics (algebra, analysis, discrete mathematics, geometry and topology, logic, mathematics education, and number theory) should take Math 300</li> <li>• Students with an interest in applied and computational mathematics (differential equations and modeling, financial mathematics, numerical analysis, optimization) should take Math 344.</li> </ul>
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- Prospective minors are urged to consult with an advisor in the Department of Mathematics to plan a coherent program of study.

**Change to Major/Degree Program Batch Course Prerequisite Change for Mathematics**

**Existing**

**Change Program Requirements**

<p>MATH 122 - Calculus for Business Administration and Social Sciences Credits: 3</p> <p>Derivatives and integrals of elementary algebraic, exponential, and logarithmic functions. Maxima, minima, rate of change, motion, work, area under a curve, and volume.</p> <p><b>Prerequisites:</b> C or better in MATH 111/111I, or by placement through Algebra version of the Mathematics Placement Test: <a href="http://assess.math.sc.edu/">http://assess.math.sc.edu/</a></p> <p>MATH 524 - Nonlinear Optimization Credits: 3</p> <p>Descent methods, conjugate direction methods, and Quasi-Newton algorithms for unconstrained optimization; globally convergent hybrid algorithm; primal, penalty, and barrier methods for constrained optimization. Computer implementation of algorithms.</p> <p><b>Prerequisites:</b> C or better in MATH 344 or 544 or consent of the Undergraduate Director</p> <p>MATH 533 - Elementary Geometric Topology Credits: 3</p> <p>Topology of the line, plane, and space, Jordan curve theorem, Brouwer fixed point theorem, Euler characteristic of polyhedra, orientable and non-orientable surfaces, classification of surfaces, network topology.</p> <p><b>Prerequisites:</b> C or better in MATH 300 or consent of the Undergraduate Director</p> <p>MATH 534 - Elements of General Topology Credits: 3</p> <p>Elementary properties of sets, functions, spaces, maps, separation axioms, compactness, completeness,</p>	<p>MATH 122 - Calculus for Business Administration and Social Sciences Credits: 3</p> <p>Derivatives and integrals of elementary algebraic, exponential, and logarithmic functions. Maxima, minima, rate of change, motion, work, area under a curve, and volume.</p> <p><b>Prerequisites:</b> C or better in MATH 111/111I, <b>or 115</b> or by placement through Algebra version of the Mathematics Placement Test: <a href="http://assess.math.sc.edu/">http://assess.math.sc.edu/</a></p> <p>MATH 524 - Nonlinear Optimization Credits: 3</p> <p>Descent methods, conjugate direction methods, and Quasi-Newton algorithms for unconstrained optimization; globally convergent hybrid algorithm; primal, penalty, and barrier methods for constrained optimization. Computer implementation of algorithms.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 241 and one of</b> MATH 344 or MATH 544 or consent of the Undergraduate Director</p> <p>MATH 533 - Elementary Geometric Topology Credits: 3</p> <p>Topology of the line, plane, and space, Jordan curve theorem, Brouwer fixed point theorem, Euler characteristic of polyhedra, orientable and non-orientable surfaces, classification of surfaces, network topology.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 241 and</b> MATH 300 or consent of the Undergraduate Director</p> <p>MATH 534 - Elements of General Topology Credits: 3</p> <p>Elementary properties of sets, functions, spaces, maps,</p>
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<p>convergence, connectedness, path connectedness, embedding and extension theorems, metric spaces, and compactification.</p> <p><b>Prerequisites:</b> C or better in MATH 300 or consent of the Undergraduate Director MATH 540 - Modern Applied Algebra Credits: 3</p> <p>Finite structures useful in applied areas. Binary relations, Boolean algebras, applications to optimization, and realization of finite state machines.</p> <p><b>Prerequisites:</b> MATH 241 MATH 544 - Linear Algebra Credits: 3</p> <p>Vectors, vector spaces, and subspaces; geometry of finite dimensional Euclidean space; linear transformations; eigenvalues on theoretical concepts, logic, and methods.</p> <p><b>Prerequisites:</b> C or better in MATH 300, or consent of the Undergraduate Director</p> <p><b>Note:</b> MATH 544L is an optional laboratory course where additional applications will be discussed. MATH 548 - Geometry, Algebra, and Algorithms Credits: 3</p> <p>Polynomials and affine space, Grobner bases, elimination theory, varieties, and computer algebra systems.</p> <p><b>Prerequisites:</b> Math 300 and Math 544 or consent of the Undergraduate Director. MATH 551 - Introduction to Differential Geometry Credits: 3</p> <p>Parametrized curves, regular curves and surfaces, change of parameters, tangent planes, the differential of a map, the Gauss map, first and second fundamental forms, vector fields, geodesics, and the exponential map.</p> <p><b>Prerequisites:</b> C or better in MATH 300 or consent of the Undergraduate Director MATH 562 - Theory of Computation Credits: 3</p>	<p>separation axioms, compactness, completeness, convergence, connectedness, path connectedness, embedding and extension theorems, metric spaces, and compactification.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 241</b> and MATH 300 or consent of the Undergraduate Director MATH 540 - Modern Applied Algebra Credits: 3</p> <p>Finite structures useful in applied areas. Binary relations, Boolean algebras, applications to optimization, and realization of finite state machines.</p> <p><b>Prerequisites:</b> C or better in MATH 241 <b>MATH 300</b> or <b>consent of the Undergraduate Director</b> MATH 544 - Linear Algebra Credits: 3</p> <p>Vectors, vector spaces, and subspaces; geometry of finite dimensional Euclidean space; linear transformations; eigenvalues on theoretical concepts, logic, and methods.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 241</b> and MATH 300, or consent of the Undergraduate Director</p> <p><b>Note:</b> MATH 544L is an optional laboratory course where additional applications will be discussed. MATH 548 - Geometry, Algebra, and Algorithms Credits: 3</p> <p>Polynomials and affine space, Grobner bases, elimination theory, varieties, and computer algebra systems.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 300</b> and in one of MATH 344 or <b>MATH544</b> or consent of the Undergraduate Director. MATH 551 - Introduction to Differential Geometry Credits: 3</p> <p>Parametrized curves, regular curves and surfaces, change of parameters, tangent planes, the differential of a map, the Gauss map, first and second fundamental forms, vector fields, geodesics, and the exponential map.</p> <p><b>Prerequisites:</b> C or better in <b>MATH 241</b> and MATH 300 or consent of the Undergraduate Director</p>
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<p>Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity.</p> <p><b>Cross-listed Course:</b> CSCE 551</p> <p><b>Prerequisites:</b> C or better in CSCE 350 or MATH 344 or 544 or 574 or consent of the Undergraduate Director MATH 570 - Discrete Optimization Credits: 3</p> <p>Discrete mathematical models. Applications to such problems as resource allocation and transportation. Topics include linear programming, integer programming, network analysis, and dynamic programming.</p> <p><b>Prerequisites:</b> C or better in MATH 344 or 544, or consent of the Undergraduate Director MATH 576 - Combinatorial Game Theory Credits: 3</p> <p>Winning in certain combinatorial games such as Nim, Hackenbush, and Domineering. Equalities and inequalities among games, Sprague-Grundy theory of impartial games, games which are numbers.</p> <p><b>Prerequisites:</b> C or better in MATH 344, 544, or 574, or consent of the Undergraduate Director MATH 587 - Introduction to Cryptography Credits: 3</p> <p>Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. Cryptographic protocols.</p> <p><b>Cross-listed Course:</b> CSCE 557</p> <p><b>Prerequisites:</b> C or better in CSCE 145 or in MATH 241, and in either CSCE 355 or MATH 574, or consent of the Undergraduate Director</p>	<p>MATH 562 - Theory of Computation Credits: 3</p> <p>Basic theoretical principles of computing as modeled by formal languages and automata; computability and computational complexity.</p> <p><b>Cross-listed Course:</b> CSCE 551</p> <p><b>Prerequisites:</b> C or better in CSCE 350 or MATH 344 or 544 or 574 <b>CSCE 350 or MATH 300</b>, or consent of the Undergraduate Director MATH 570 - Discrete Optimization Credits: 3</p> <p>Discrete mathematical models. Applications to such problems as resource allocation and transportation. Topics include linear programming, integer programming, network analysis, and dynamic programming.</p> <p><b>Prerequisites: C or better in MATH 300 and in one of MATH 544 or MATH 344</b> or consent of the Undergraduate Director. MATH 576 - Combinatorial Game Theory Credits: 3</p> <p>Winning in certain combinatorial games such as Nim, Hackenbush, and Domineering. Equalities and inequalities among games, Sprague-Grundy theory of impartial games, games which are numbers.</p> <p><b>Prerequisites:</b> C or better in MATH 344, 544, or 574 <b>MATH 300 or MATH 374</b>, or consent of the Undergraduate Director MATH 587 - Introduction to Cryptography Credits: 3</p> <p>Design of secret codes for secure communication, including encryption and integrity verification: ciphers, cryptographic hashing, and public key cryptosystems such as RSA. Mathematical principles underlying encryption. Code-breaking techniques. Cryptographic protocols.</p> <p><b>Cross-listed Course:</b> CSCE 557</p> <p><b>Prerequisites:</b> C or better in CSCE 145 or in MATH 241, and in either CSCE 355 or MATH 574, <b>CSCE 145 or MATH 241</b>,</p>
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	and at least one of CSCE 355, MATH 300, or MATH 374, or consent of the Undergraduate Director
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### **E. Department of Media Arts**

#### **Change in title**

From: MART 201 Introduction to Media Development. (3)

To: MART 201 Foundations of Media Arts Production. (3)

#### **Change in prerequisites**

From: MART 341 Sound Design. (3)

To: MART 341 Sound Design. (3)

Prereq: MART 210

From: MART 371 The Moving Image. (3)

Prereq: MART 210

To: MART 371 The Moving Image. (3)

Prereq: MART 201 and MART 210

### **F. Department of Philosophy**

#### **Add Cross Listing**

From: PHIL 334 Feminist Philosophy. (3)

To: PHIL 334 Feminist Philosophy. [=WGST 334] (3)

### **G. Department of Psychology**

#### **Change title**

From: PSYC 410 Survey of Abnormal Psychology. (3)

To: PSYC 410 Behavioral and Mental Disorders. (3)

**H. Department of Religious Studies**  
**Change to Major / Degree Program – BA in Religious Studies**

**Other Program Requirements:**

<b>Major Prerequisite (3 Hours)</b>	<b>Major Prerequisite (3 Hours)</b>
<hr/> <p>Select one course from the following:</p> <ul style="list-style-type: none"> <li>• RELG 101 - Exploring Religions</li> <li>• RELG 120 - Comparative Religion (may also fulfill a General Education requirement)</li> </ul>	<hr/> <p>A minimum grade of <b>C</b> is required in all major prerequisite courses.</p> <hr/> <p>Select one course from the following:</p> <ul style="list-style-type: none"> <li>• RELG 101 - Exploring Religions (will also satisfy a Carolina Core GSS requirement)</li> <li>• RELG 120 - Comparative Religion (may also satisfy a College of Arts &amp; Sciences Humanities AIU requirement)</li> </ul>

**Change course number, title and description**

- From: RELG 370     Spiritual Autobiography. (3) Autobiographies shaped by confrontation with religious and spiritual questions and the challenges of lived experience; journeys of discovering, re-defining, re-imagining the self.
- To:     RELG 474     Spiritual Lives. (3) Contemporary and historical life-stories about spiritual or religious figures as presented in various forms such as biography, autobiography, hagiography, art, and/or film; explores both the specific issues within unique accounts and idealized, general models for spiritual lives.

**Change course number, description**

- From: RELG 371     Visions of Apocalypse. [=JSTU 371] (3) An exploration of the prophetic vision of last things. Cross-listed with JSTU 371 FS: 2/4/2015
- To:     RELG 475     Visions of Apocalypse. [=JSTU 475] (3) Symbolic visions, tours of heaven and hell, cosmic battles, divine judgment, messianic figures, prophecy, or other forms of revelation as found in literature, art, or social movements from diverse geographical and historical locations. Cross-listed with JSTU 475

**I. Department of Theatre and Dance**

**Change to Concentration – Dance Education K-12 Certification**

**Existing Concentration**

**Change Concentration**

<b>Techniques (15 hours)</b>	<b>Techniques (16 hours)</b>
<ul style="list-style-type: none"> <li>• 5 ballet techniques</li> <li>• 5 contemporary techniques</li> <li>• 2 world dance</li> <li>• 1 open technique</li> </ul> <p>Students must meet both the number of credits and distribution of technique requirements listed above; some techniques courses are variable credit.</p> <p>To graduate with a major in dance, students must successfully complete DANC 302 and DANC 312.</p>	<ul style="list-style-type: none"> <li>• 4 semesters of ballet technique: DANC 202, 302, and/or 402</li> <li>• 4 semesters of contemporary technique: DANC 212, 312, and/or 412</li> <li>• 2 semesters of world dance forms: one of DANC 111 or 113 and one of DANC 307 or 407</li> <li>• 1 semester of musical theatre dance: DANC 380</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Students must successfully complete DANC 302 and DANC 312 with a C+ or better.</li> <li>• Ballet and contemporary technique courses are variable credit.</li> <li>• Students must meet both the number of credits and distribution of technique requirements listed above.</li> </ul>

**Change in description and prerequisite**

From: DANC 270      Dance Education I: Introduction to Dance Education. (2) An overview of teaching dance as art in K-12, foundations for dance curriculum, instruction, and assessment.

Prerequisites: DANC 160, 281, or 282, at least one. Not open to freshmen or sophomores. Minimum of 90 hour in program of study. Recommended students have completed at least three semesters of technique

To:      DANC 270      Dance Education I: Introduction to Dance Education. (2) An overview of state and national standards, theoretical and philosophical perspectives that shape current practices for teaching dance in K-12 environments, and arts/dance education advocacy.



Prerequisites: DANC 150 and 160. unless special permission is granted by instructor. Not open to freshmen. It is recommended that students have completed at least three semesters of technique.

From: DANC 370 Dance Education II: Creative Dance. (3) A second level of teaching dance as art in K-12, foundations for dance curriculum, instruction and assessment.

Prerequisites: DANC 270 Not open to freshmen and sophomores. Recommend students have completed at least four semesters of technique and world dance

TO: DANC 370 Dance Education II: Creative Dance. (3) An introduction to motor development, movement concepts, elements, and skills that contribute to lesson planning, instruction, and assessment of creative dance in K-12 education.

Prerequisites: DANC 270 and 360. It is recommended that students have completed at least three semesters of ballet and contemporary technique and world dance.

### **Change in description**

From: DANC 470 Dance Education III: Dance Pedagogy for Middle and High School. (4) The application of teaching dance as art for middle and high school. Elements to be taught will be foundations for dance curriculum, instruction and assessment.

To: DANC 470 Dance Education III: Dance Pedagogy for Middle and High School. (4) Intensive study of content and strategies for teaching dance in middle and high school with particular emphasis on curriculum development, instruction, and assessment.

## **J. Women's & Gender Studies**

### **New Course**

WGST 334 Feminist Philosophy. [=PHIL 334] (3) Introduces feminist philosophy and applications to philosophical problems

### **Change course number**

From: WGST 358 Gender and Culture. [=ANTH 358] (3)

To: WGST 207 Gender and Culture. [=ANTH 207] (3)

### **Delete course**

WGST 111 Women in Culture. (3)

**K. School of Visual Art and Design**

**New courses**

ARTS 266 Illustration II. (3) Illustration projects emphasizing principles of visual communication, development of resource material, composition and preparation of sketches, comprehensives, and finished illustrations in a variety of media.

Prerequisite: ARTS 102 and ARTS 111, OR Consent of instructor

ARTS 466 Advanced Illustration II. (3) Projects in commercial illustration. Further development of style, media, and technique with emphasis in development of commercial portfolio.

Prerequisite: ARTS 265 or ARTS 266

**2. MOORE SCHOOL OF BUSINESS**

**a. Department of Management**

**b.**

**Change to Major/Degree Program Management – B.S.B.A.**

**Existing Program / Major Requirements:**

**Change Program / Major Requirements:**

<p>Entrepreneurship (15 Hours)</p> <hr/> <p>12 hours</p> <hr/> <ul style="list-style-type: none"> <li>• <a href="#">MGMT 472 - Entrepreneurship and Small Business</a></li> <li>• <a href="#">MGMT 473 - Developing and Launching New Ventures</a></li> <li>• <a href="#">MGMT 474 - Executing Strategy in New Ventures</a></li> <li>• <a href="#">MGMT 479 - Advanced Issues in Entrepreneurship</a></li> </ul> <p>One of the following courses (3 Hours)</p> <hr/> <ul style="list-style-type: none"> <li>• <a href="#">MGMT 374 - Management of Human Resources</a></li> <li>• <a href="#">MGMT 401 - Negotiation and Conflict in the Workplace</a></li> <li>• <a href="#">MGMT 402 - Managing Teams in the Workplace</a></li> <li>• <a href="#">MGMT 403 - Leadership in Organizations</a></li> <li>• <a href="#">MKTG 352 - Principles of Marketing Research</a></li> <li>• <a href="#">IBUS 402 - International Marketing</a></li> </ul>	<p>Entrepreneurship (45 12 Hours)</p> <hr/> <p>12 hours</p> <hr/> <ul style="list-style-type: none"> <li>• <del><a href="#">MGMT 472 - Entrepreneurship and Small Business</a></del></li> <li>• <del><a href="#">MGMT 473 - Developing and Launching New Ventures</a></del></li> <li>• <del><a href="#">MGMT 474 - Executing Strategy in New Ventures</a></del></li> <li>• <del><a href="#">MGMT 479 - Advanced Issues in Entrepreneurship</a></del></li> </ul> <p>One of the following courses (3 Hours)</p> <hr/> <ul style="list-style-type: none"> <li>• <del><a href="#">MGMT 374 - Management of Human Resources</a></del></li> <li>• <del><a href="#">MGMT 401 - Negotiation and Conflict in the Workplace</a></del></li> <li>• <del><a href="#">MGMT 402 - Managing Teams in the Workplace</a></del></li> <li>• <del><a href="#">MGMT 403 - Leadership in Organizations</a></del></li> <li>• <del><a href="#">MKTG 352 - Principles of Marketing Research</a></del></li> <li>• <del><a href="#">IBUS 402 - International Marketing</a></del></li> </ul>
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## Additional Information

**Double Major:** Students selecting Entrepreneurship as a major are required to select a second, non-Management major in business.

### **3. COLLEGE OF EDUCATION**

#### **a. Department of Language and Literacy**

##### **Delete Co-requisite**

From: EDRD 500 Content Area Literacy PK-12. (3)

Corequisite: student teaching

To: EDRD 500 Content Area Literacy PK-12. (3)

### **4. COLLEGE OF ENGINEERING AND COMPUTING**

#### **a. Department of Computer Science and Engineering**

##### **New Course**

CSCE 546 Mobile Application Development. (3) Development of mobile applications, including user interface design for mobile, local and cloud data storage techniques, and application architectures.

Prereq: CSE240 or previous programming experience with one of the following programming languages (C/C++, Java, Swift, Python, Matlab, Javascript)

#### **b. Department of Electrical Engineering**

##### **Change Prerequisites**

From: ELCT 363 Introduction to Microelectronics. (3)

Prerequisites:PHYS 212,MATH 241

To: ELCT 363 Introduction to Microelectronics. (3)

Prerequisites: C or better in CHEM 111, C or better in PHYS 212, C or better in MATH 241

### **Change Description and Prerequisite**

From: ELCT 371 Electronics. (3) Introduction to electronics design.

Prerequisites: CSCE 211, ELCT 222

To: ELCT 371 Electronics. (3) Fundamentals of analog and digital electronics. Ideal and non-ideal characteristics of amplifiers, including gain and frequency response. Operating characteristics of diodes and transistors. Logic gates and memory cells.

Prerequisite: C or better in ELCT 222

#### **c. Department of Engineering**

##### **New Course**

ENCP 605 Principles of Engineering for Teachers. (3) Technological processes employed in engineering and engineering technology for teachers and students in teacher education programs.

Prereq: MATH 112 or MATH 115 or higher

### **5. COLLEGE OF HOSPITALITY, RETAIL & SPORT MANAGEMENT**

#### **a. Department of Sport and Entertainment Management**

##### **New course**

SPTE 655 Social Media in Live Entertainment and Sport. (3) In-depth investigation of social networks, digital platforms, and online marketing for the live entertainment and sport industries.

### **6. COLLEGE OF INFORMATION AND COMMUNICATIONS**

#### **Department of Library and Information Science**

##### **New Course**

SLIS 434 Introduction to Knowledge Discovery. (3) The students will review knowledge discovery basics concepts, techniques, tools, and applications. This course is project based and the students will develop new Wikipedia pages by reading papers in a selected domain.

Pre-requisite MATH 122 or Pre-requisite MATH 141 or Pre-requisite MATH 142 or Pre-requisite MATH 170 or Pre-requisite MATH 172 or Pre-requisite STAT 515 or Pre-requisite STAT 201 or Pre-requisite STAT 205

## 7. SCHOOL OF MUSIC

### **Change Course Hour Type, Credit Hours Minimum and Maximum for a Single Offering, Maximum Number of Credit Hours if Course Can Be Taken Multiple Times**

From: MUSC 498 Music Practicum. (1)  
Course Hour Type: Fixed  
Maximum Number of Credit Hours if Course Can Be Taken Multiple Times: 3

To: MUSC 498 Music Practicum. (1)  
Course Hour Type: Variable  
Credit Hours Minimum for a Single Offering: 1  
Credit Hours Maximum for a Single Offering: 1  
Maximum Number of Credit Hours if Course Can be taken Multiple Times: 6

## 8. ARNOLD SCHOOL OF PUBLIC HEALTH

### **Change to Major/Degree Program – B.S. in Public Health**

#### **Existing Program Introduction**

The Arnold School of Public Health offers both the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree with a major in public health. These degrees are designed to provide a broad liberal undergraduate education that includes a general understanding of public health, instills a strong sense of values, and provides the capacity to adapt acquired knowledge and abilities to address new challenges. These programs provide the student with two paths to a broad pre-professional education. In addition to general education and public health-related coursework, the B.A. curriculum will prepare undergraduate students through rigorous study of the social and behavioral sciences for entry into social science-based graduate programs and schools of law. Students in the B.S. major will receive the same general and public health core courses and, will take courses in the natural sciences leading potentially to graduate work in the public health laboratory sciences or study in the field of medicine.

#### **Existing College/School Gen Ed or Departmental Requirements:**

##### 2. Arnold School College Core Requirements

The following courses may fulfill some of the Carolina Core requirements (or some minors) and must be completed for a BS degree from the Arnold School of Public Health. A minimum grade of C in these courses is required. Potential overlap with the Carolina Core courses (pending approval of Carolina Core designation) is indicated in parentheses.

MATH 122 - Calculus for Business Administration and Social Sciences or

MATH 141 - Calculus I

STAT 201 - Elementary Statistics or  
STAT 205 - Elementary Statistics for the Biological and Life Sciences

ENGL 101 - Critical Reading and Composition

ENGL 102 - Rhetoric and Composition

PSYC 101 - Introduction to Psychology

SOCY 101 - Introductory Sociology

BIOL 101 - Biological Principles I

BIOL 101L - Biological Principles I Laboratory

BIOL 102 - Biological Principles II

BIOL 102L - Biological Principles II Laboratory

CHEM 111 - General Chemistry I

PHYS 201 - General Physics I

PHYS 201L - General Physics Laboratory I

CHEM 112 - General Chemistry II

or

PHYS 202 - General Physics II and

PHYS 202L - General Physics Laboratory II

PUBH 102 - Introduction to Public Health

UNIV 101 - The Student in the University

**Existing Program/Major Requirements:**

**Change Program / Major Requirements**

<p>3. Required Public Health-Related Major Courses (30 Hours)</p> <p>ENHS 321 - Environmental Pollution and Health</p> <p>EPID 410 - Principles of Epidemiology</p> <p>EXSC 191 - Physical Activity and Health</p> <p>HPEB 300 - Introduction to Health Promotion, Education, and Behavior</p> <p>HPEB 511 - Health Problems in a Changing Society</p> <p>HPEB 553 - Community Health Problems</p> <p>HSPM 412 - Health Economics</p> <p>HSPM 500 - Introduction to Health Care Management and Organization</p> <p>PUBH 498 - Public Health Capstone Seminar</p> <p>Select One:</p>	<p>3. Required Public Health-Related Major Courses (38 Hours)</p> <p>ENHS 321 - Environmental Pollution and Health</p> <p>EPID 410 - Principles of Epidemiology</p> <p>EXSC 191 - Physical Activity and Health</p> <p>ADD:</p> <p>EXSC 223 - Anatomy and Physiology I</p> <p>EXSC 223L - Anatomy and Physiology I Laboratory</p> <p>EXSC 224 - Anatomy and Physiology II</p> <p>EXSC 224L - Anatomy and Physiology II Laboratory</p> <p>HPEB 300 - Introduction to Health Promotion, Education, and Behavior</p> <p>HPEB 511 - Health Problems in a Changing Society</p> <p>HPEB 470 - Principles of Global Health</p> <p>HPEB 553 - Community Health Problems</p> <p>HSPM 412 - Health Economics</p>
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<p>COMD 500 - Introduction to Speech-Language Pathology and Audiology</p> <p>EXSC 410 - Psychology of Physical Activity</p>	<p>HSPM 500 - Introduction to Health Care Management and Organization</p> <p>PUBH 498 - Public Health Capstone Seminar</p> <p>Select One:</p> <p>COMD 500 - Introduction to Speech-Language Pathology and Audiology</p> <p>EXSC 410 - Psychology of Physical Activity</p>
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**Existing Electives:**

<p>5. Electives</p> <p>Students in Public Health must complete a minimum of 120 credit hours. Depending on specific course choices, students must complete an appropriate number of elective courses.</p>
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**Existing Cognate and minor Requirements:**

**Change Cognate and Minor Requirements:**

<p>4. Additional Courses in the Major (28 Hours)</p> <p>Natural Sciences (16 Hours):</p> <p>EXSC 223 - Anatomy and Physiology I</p> <p>EXSC 223L - Anatomy and Physiology I Laboratory</p> <p>EXSC 224 - Anatomy and Physiology II</p> <p>EXSC 224L - Anatomy and Physiology II Laboratory</p>	<p>4. Additional Courses in the Major (28 Hours) (20-21 Hours)</p> <p>Natural Sciences (16 Hours): Natural Science Cognate (12 Hours)</p> <p>EXSC 223 - Anatomy and Physiology I</p> <p>EXSC 223L - Anatomy and Physiology I Laboratory</p> <p>EXSC 224 - Anatomy and Physiology II</p>
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<p>CHEM 333 - Organic Chemistry I</p> <p>CHEM 331L - Essentials of Organic Chemistry Laboratory I</p> <p>CHEM 334 - Organic Chemistry II</p> <p>CHEM 332L - Essentials of Organic Chemistry Laboratory II</p> <p>Selectives (12 Hours):</p> <p>12 additional credit hours with approval of the undergraduate advisor to enhance the major</p> <p>Minors</p> <p>Students majoring in Public Health may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, selective, or elective requirements. Courses in the college core requirements beyond the Carolina Core minimum requirements may also be used in the minor.</p>	<p>EXSC 224L - Anatomy and Physiology II Laboratory</p> <p>CHEM 333 - Organic Chemistry I</p> <p>CHEM 331L - Essentials of Organic Chemistry Laboratory I</p> <p>CHEM 334 - Organic Chemistry II</p> <p>CHEM 332L - Essentials of Organic Chemistry Laboratory II</p> <p>NEW:</p> <p>"Each student must complete a cognate of 12 credit hours of natural and physical sciences. The cognate is intended to support the course work in the major. Depending on student interests, cognate courses may be selected from one or several units. A cognate differs from a minor in that the courses must be 300 level or above and may be distributed over more than one subject area. Courses applied toward minimum Carolina Core requirements cannot be counted toward either cognate. All cognate courses must be approved by the student's academic advisor. A minimum grade of C in these courses is required.</p> <p>Selectives (12 Hours): "Major Specific Electives (8-9 Hours):"</p> <p>12 additional credit hours with approval of the undergraduate advisor to enhance the major</p> <p>NEW:</p> <p>"Each student must complete 8-9 credit hours of related courses to support coursework in the major. All major specific electives must be approved by the student's academic advisor. A minimum grade of C in these courses is required.</p>
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	<p>Minors</p> <p>Students majoring in Public Health may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, selective, or elective requirements. Courses in the college core requirements beyond the Carolina Core minimum requirements may also be used in the minor.</p>
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**Change to Major/Degree Program – B.A. in Public Health**

**Existing Program Introduction:**

The Arnold School of Public Health offers both the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree with a major in public health. These degrees are designed to provide a broad liberal undergraduate education that includes a general understanding of public health, instills a strong sense of values, and provides the capacity to adapt acquired knowledge and abilities to address new challenges. These programs provide the student with two paths to a broad pre-professional education. In addition to general education and public health-related coursework, the B.A. curriculum will prepare undergraduate students through rigorous study of the social and behavioral sciences for entry into social science-based graduate programs and schools of law. Students in the B.S. major will receive the same general and public health core courses and, will take courses in the natural sciences leading potentially to graduate work in the public health laboratory sciences or study in the field of medicine.

**Existing College/School Gen Ed or Departmental Requirements:**

2. Arnold School College Core Requirements

The following courses may fulfill some of the Carolina Core requirements (or some minors) and must be completed for a BA degree from the Arnold School of Public Health. A minimum grade of C in these courses is required. Potential overlap with the Carolina Core courses (pending approval of Carolina Core designation) is indicated in parentheses.

STAT 110 - Introduction to Statistical Reasoning

STAT 201 - Elementary Statistics or

STAT 205 - Elementary Statistics for the Biological and Life Sciences

ENGL 101 - Critical Reading and Composition
ENGL 102 - Rhetoric and Composition
PSYC 101 - Introduction to Psychology
SOCY 101 - Introductory Sociology
ANTH 102 - Understanding Other Cultures
ECON 224 - Introduction to Economics
PUBH 102 - Introduction to Public Health
UNIV 101 - The Student in the University

**Existing Program / Major Requirements:**

**Change Program / Major Requirements:**

<p>3. Required Public Health-Related Major Courses (30 Hours)</p> <hr/> <p>ENHS 321 - Environmental Pollution and Health</p> <p>EPID 410 - Principles of Epidemiology</p> <p>EXSC 191 - Physical Activity and Health</p> <p>HPEB 300 - Introduction to Health Promotion, Education, and Behavior</p> <p>HPEB 511 - Health Problems in a Changing Society</p> <p>HPEB 553 - Community Health Problems</p> <p>HSPM 412 - Health Economics</p> <p>HSPM 500 - Introduction to Health Care Management and Organization</p> <p>PUBH 498 - Public Health Capstone Seminar</p> <p>Select One:</p> <hr/>	<p>3. Required Public Health-Related Major Courses (30 Hours)</p> <hr/> <p>ENHS 321 - Environmental Pollution and Health</p> <p>EPID 410 - Principles of Epidemiology</p> <p>EXSC 191 - Physical Activity and Health</p> <p>HPEB 300 - Introduction to Health Promotion, Education, and Behavior</p> <p><del>HPEB 511 - Health Problems in a Changing Society</del> HPEB 470: Principles of Global Health</p> <p>HPEB 553 - Community Health Problems</p> <p>HSPM 412 - Health Economics</p> <p>HSPM 500 - Introduction to Health Care Management and Organization</p> <p>PUBH 498 - Public Health Capstone Seminar</p> <p>Select One:</p> <hr/>
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<p>COMD 500 - Introduction to Speech-Language Pathology and Audiology</p> <p>EXSC 410 - Psychology of Physical Activity</p>	<p>COMD 500 - Introduction to Speech-Language Pathology and Audiology</p> <p>EXSC 410 - Psychology of Physical Activity</p>
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**Existing Electives:**

<p><b>5. Electives</b></p> <hr/> <p>Students in Public Health must complete a minimum of 120 credit hours. Depending on specific course choices, students must complete an appropriate number of elective courses.</p>
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**Existing Cognate and Minor Requirements:**

<p><b>4. Additional Courses in the Major (24 Hours)</b></p> <hr/> <p>Each student must complete two cognates of 12 credit hours each. The cognates are intended to support the course work in the major. Depending on student interests, cognate courses may be selected from one or several units. A cognate differs from a minor in that the courses must be above the sophomore level and may be distributed over more than one subject area. Courses applied toward minimum Carolina Core requirements cannot be counted toward either cognate. All cognate courses must be approved by the student's academic advisor.</p> <p><b>Minors</b></p> <hr/> <p>Students majoring in Public Health may pursue minors offered by other units. In completing a minor, students may apply advisor-approved courses to both the minor and cognate, selective, or elective requirements. Courses in the college core requirements beyond the Carolina Core minimum requirements may also be used in the minor.</p>
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**Add Prerequisite**

From: EPID 410 Principles of Epidemiology. (3)

To: EPID 410 Principles of Epidemiology. (3)

Pre-requisite: PUBH 102; and Pre-requisite or Co-requisite: STAT 201 or STAT 205 or BIOS 410