The University Curriculum Committee will meet on Thursday, 9 March 2000, at 1:30 p.m. in Brewster B-104.

Unit representatives, who have proposals on the agenda, are requested to be present to answer any questions which members of the committee may have. It is also requested that representatives bring a copy of the latest University Undergraduate Catalog. This meeting will be held in open session. In an attempt to save representatives' time, the approximate times for discussion of agenda items are listed below.

<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1:30</td>
<td>1.</td>
<td>Approval of the minutes of the 10 &amp; 24 February meetings.</td>
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<tr>
<td>1:35</td>
<td>2.</td>
<td>School of Business admissions requirement changes.</td>
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<td>1:45</td>
<td>3.</td>
<td>Science Education degree changes.</td>
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<td>1:55</td>
<td>4.</td>
<td>Mathematics package including change prerequisites for MATH 5102 and 2172; change Statistics minor and option; revise CSCI 4905; new courses MATH 5000.</td>
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<tr>
<td>2:05</td>
<td>5.</td>
<td>Physics prerequisite changes and accelerated MS program.</td>
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<td>2:15</td>
<td>6.</td>
<td>Honors program new courses HNRS 3101, 2, 3 &amp; 4101, 2, 3.</td>
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<tr>
<td>2:20</td>
<td>7.</td>
<td>Chemistry package including: item tabled form last meeting; changes in degree requirements; rename CHEM 1120 &amp; 1121; revise 1130 &amp; 31; new courses 2770 &amp; 2771.</td>
</tr>
<tr>
<td>2:35</td>
<td>8.</td>
<td>Psychology Dept. rename PSYC 3310 and double list with NEUR 3310. Delete PSYC 5327 &amp; 5343.</td>
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<tr>
<td>2:50</td>
<td>10.</td>
<td>School of Art changes including: new courses ART 5323, 5851, 5860 &amp; 5870; revise environmental design degree and bank Art 3416, 3426, 3440, 4411, 4414, and 4460; delete ART 5080 &amp; 81.</td>
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<tr>
<td>3:15</td>
<td>11.</td>
<td>School of Health and Human Performance: new courses HLTH 3200, 4300, 5678; changes to BS in Athletic Training; change name of EXSS 1000 &amp; change name of BS in Health &amp; fitness to BS in Physical Activity and Fitness.</td>
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<tr>
<td>3:40</td>
<td>12.</td>
<td>Change prefix for CSDI 2020, 2030, 2040, 3060, 3070 &amp; 3080 to ASLS.</td>
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<tr>
<td>3:45</td>
<td>13.</td>
<td>School of Music: add admissions statement; new courses MUSC 4644, 4646, 4647, 4648, 4654, 4656, 5506 &amp; 5516; revise MUSC 5706, 5716 &amp; 5926; unbank MUSC 1615, 1645 &amp; 1655.</td>
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<tr>
<td>4:05</td>
<td>14.</td>
<td>Delete: EXSS 1013, 1024, 1107, 1108, 1112, 113, 1115, 1132, 1138, 1148, 1357, 2300, 2530, 2760, 2761, 2763, 2764, 2765, 2766, 2767, 2772, 2773, 2784, 2785, 3560, 3570, 3610, 3612, 3614, 3616, 3617, 3618, 3783, 3784, 3786, 3787, 3790, 3791, 3793, 3794, 2800 &amp; 4403; RCLS 3191, 3192, 4801, 4802, 4803: PHYE 1013, 1024, 1112, 1132, 1357, 3610, 3612, 3614, 3616, 3617, 3618; PRC 3202; EXSS 1124, 1140, 1231, 1251, 1255, 1261, 1271, 1281, 1291, 1294, 2231, 2251, 2255, 2261, 2271, 2281, 2291, 2294, 2778, 2779, 4906, 5304; HLTH 3870, 5313; PHYE 1124, 1140, 3611, 4305, 5302, 5304, 5400, 5904; RCLS 4800: PHYS 5060; SOCI 5312, 5313, 5343.</td>
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<td>4:10</td>
<td>15. School of Nursing: changes in general education; new courses NURS 3020, 3040, 3200, 3210/11, 3270, 3330/31, 3340/41, 3370, 3410, 3510, 3520, 4010/11, 4020/21, 4100, 4150, 4210/11, 4500 &amp; 4511; revise 3900; delete 2400, 2401, 2700, 2701, 3000, 3001.</td>
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<tr>
<td>4:50</td>
<td>16. Geography Department: revise Honors Program; new courses GEOG 4900 &amp; 4901; revise 2003, 3410 &amp; 4410; unbank 4001; delete 2123, 3044, 3052, 3210, 4324, 5007, 5009, 5021, 5084, 5100, 5101, 5102, 5111 &amp; 5200; add GIS certificate &amp; change general description of program.</td>
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<tr>
<td>5:30</td>
<td>17. New history honors courses.</td>
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<tr>
<td>5:35</td>
<td>18. Other committee business.</td>
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</table>
UNIVERSITY CURRICULUM COMMITTEE MEETING OF MARCH 9, 2000, CATALOG COPY

"Revisions to catalog copy of 2-24-00"

SCHOOL OF HUMAN ENVIRONMENTAL SCIENCES

Department of Child Development and Family Relations

Renumber CDFR 4413 (not 4412) to 3413.
New course: CDFR 4323: Remove, same as ELEM 4323; there is no ELEM 4323.
BS in Family and Community Services: remove "or" between CDFR 4306 and CDFR 4406; both courses are required.
BS in Child Life: 4., Restrictive electives, courses to be deleted are EXSS 1000, 2200 and EXSS 2600.

Interdisciplinary Programs

The Honors Program

p. 345: Add new HNRS courses:

3101, 3102, 3103. Independent Study (1,2,3) (WI) (F) (S) (SS) May be repeated in combination with other HNRS Independent Studies for a maximum of six s.h. credit. P: Consent of program director. Independent research/creative activity project, supervised by a faculty mentor.

4101, 4102, 4103. Independent Study (1,2,3) (WI) (F) (S) (SS) May be repeated in combination with other HNRS Independent Studies for a maximum of six s.h. credit. P: Consent of program director. Independent research/creative activity project, supervised by a faculty mentor.

College of Arts and Sciences

Department of Biology

p. 281: Bank BIOL courses as follows:

BIOL 5910, 5911 Vascular Plant Systematics (4,0)

Department of Chemistry

p. 286: Rename and revise CHEM courses as follows:

1120. Basic General, Organic, and Biochemistry I (4) (F) (S) (SS) (GE:SC) May not count toward general education science requirement for science majors. Study of general, organic, and biochemistry and chemical applications in the health professions.

1121. Basic General, Organic, and Biochemistry Laboratory I (1) (F) (S) (GE:SC) 3 laboratory hours per week. C: CHEM 1120. Introduction to laboratory techniques in general, organic, and biochemistry.

Renumber, rename, and revise CHEM 2620, 2621 as follows:

1130. Basic General, Organic, and Biochemistry II (3) (Formerly CHEM 2620) (F) (S) (SS) (GE:SC) May not count toward general education science requirement for science majors. P: CHEM 1120. Continuation of CHEM 1120.

1131. Basic General, Organic, and Biochemistry Laboratory II (1) (Formerly CHEM 2621) (F) (S) (SS) (GE:SC) 3 lab hours per week. Continuation of CHEM 1121.

Add new CHEM courses as follows:

2770. Biological Chemistry (3) (F) (S) (GE:SC) P: CHEM 2650 or 2750. Study of the chemistry and intermediary metabolism of proteins, carbohydrates, lipids, and nucleic acids.

2771. Biological Chemistry Laboratory (1) (F) (S) (GE:SC) 3 lab hours per week. C: CHEM 2770. Application of chemical laboratory techniques to the study of proteins, carbohydrates, lipids, and nucleic acids.

pp.79-80: BS IN CHEMISTRY, insert text as follows:

The BS degree in chemistry is the appropriate program for students considering advanced degree programs in chemistry, biochemistry, and other related fields or a professional career in chemistry. Graduates of this program meet certification requirements of the American Chemical Society. Students are strongly encouraged to pursue undergraduate research with a faculty member. Up to six credit hours of undergraduate research may be applied toward degree requirements. Information regarding undergraduate research may be obtained from the Director of Undergraduate Studies.
Students completing the BS degree are encouraged to consider some of the following courses as electives: SPCH 320 or SPCH 2510; ITEC 3290 or ENGL 3920; MATH 2226, 3236, 4331; CHEM 4515, 4516, 4517; advanced 5000 level courses in chemistry; and BIOL 5800 or 5810.

Under 2. Core: Increase core hours from 43 to 45 s.h. and insert 2770. Biological Chemistry (3) (F(S) (GE:SC)
   [P: CHEM 2650 or 2750]

Renumber 3. Cognates, to 4. and 4., Electives, to 5., inserting a new number 3. as follows:

3. Elective labs .................................................................................................................. 2 s.h.
   Choose a minimum of 2 s.h. from the following:
   BIOL 5821. Principles of Biochemistry Laboratory (1) (F) (S) [P/C: BIOL 5800 or 5810]
   CHEM 2111. Applications of Molecular Modeling (1) (F) (S) (GE:SC) [P/C: CHEM 2750]
   CHEM 2771. Biological Chemistry Laboratory (1) (F) (GE:SC) [P/C: CHEM 2770]
   CHEM 4515, 4516, 4517. Research Problems in Chemistry (1,2,3) (F) (S) [P: Consent of instructor]

p. 80: BA in Chemistry, insert text as follows:

The BA program provides a flexible major designed to provide the student with a broad education in chemistry appropriate for further study in a wide range of fields, such as business, medicine, pharmacy, and law as well as careers dependent on a basic knowledge in chemistry. It is different than the BS degree in the required chemistry, math, and physics courses. Any of the required major courses or cognates, however, may be replaced by courses which cover the same topics at a more advanced level. For example, CHEM 3950, 3960 may be taken instead of CHEM 3850. It is the student's responsibility to ensure that the prerequisites for such courses have been met.

p. 81: Following "Chemistry Honors Program", insert new text as follows:

BACHELOR OF SCIENCE AND ACCELERATED MS IN CHEMISTRY

Students working toward a BS degree in chemistry have the opportunity to earn an MS degree in two or three additional semesters of study. These students are encouraged to begin research projects as undergraduates and take advanced classes that can be used to waive some MS course requirements. As seniors they may be granted early admission to the MS program and would be eligible to receive paid teaching assistantships. To be enrolled in the MS program as a senior, students must be within 6 credit hours of completing all undergraduate degree requirements. Applications to the MS program should be submitted during the first semester of the senior year and must include GRE scores.

Department of Geography

pp. 326-29: Revise GEOG courses as follows:


3410. Computer Mapping (3) (F) (S) P: GEOG 2400 or equivalent experience. Techniques, theories, and problems of computer mapping and design. Students will produce several portfolio quality hard copy maps or cartographic visualizations.

4410. Advanced Cartographic Design and Production (3) (S) (F) P: GEOG 3410 or equivalent experience. Continuation of GEOG 3410 at an advanced level, including advanced mapping techniques such as animation, Internet mapping, and the production of publication-quality maps.

Unbank GEOG course as follows:

4001. Geography of Transportation and Trade (3) (S). P: GEOG 2003. Studies the forces leading to the interaction of people and commodities between places, the distribution and characteristics of transport networks, and the effects of transportation flows on regions and nations.

Add new GEOG courses as follows:

4900. Honors Research (3) (F) (S) P: Admission to the Geography Honors Program. Extensive program of supervised reading and research in an area of geography, leading to the preparation of a senior honors thesis proposal.

4901. Senior Honors Thesis (3) (F) (S) P: GEOG 4900 with a grade of B or higher. Extensive program of supervised research in an area of geography, leading to the writing of a senior honors thesis.

Delete banked GEOG courses as follows:

2123. Early Experiences for the Prospective Teacher (1)
pp. 93-94: BA in Geography, revise as follows:

3. Common Core, revise titles and prerequisites of GEOG 3410 and 4410 as indicated above, and add GEOG 4901.
   Senior Honors Thesis (3) (F) (S) [P: GEOG 4900 with a grade of B or higher]

4. Concentration area, human, add GEOG 4901. Geography of Transportation and Trade (3) (S) [P: GEOG 2003] and
   GEOG 4900. Honors Research (3) (F) (S) [P: Admission to GEOG honors program]

4. Concentration area, physical, add GEOG 4900. Honors Research (3) (F) (S) [P: Admission to GEOG honors program]

pp. 95-96: BS in Applied Geography, revise as follows:

2. Core, human, add GEOG 4001. Geography of Transportation and Trade (3) (S) [P: GEOG 2003] and GEOG 4900.
   Honors Research (3) (F) (S) [P: Admission to GEOG honors program]

2. Core, physical, add GEOG 4900. Honors Research (3) (F) (S) [P: Admission to GEOG honors program]

2. Core, techniques, revise titles and prerequisites of GEOG 3410 and 4410 as indicated above and add GEOG 4900.
   Honors Research (3) (F) (S) [P: Admission to GEOG honors program]

Core, electives, add 4901. Senior Honors Thesis (3) (F) (S) [P: GEOG 4900 with a grade of B or higher]

p. 96: Following the geography minor, add new text for the Honors Program and the GIS certificate as follows:

Geography Honors Program

The honors program in geography is designed for outstanding geography majors who wish additional challenge and
recognition in pursuing scholarly work in a sub-field of geography. A student wishing to enter the honors
program in geography must be a junior majoring in geography, have a minimum cumulative 3.0 GPA, have a minimum
3.3 GPA in geography, and have completed a minimum of 21 s.h. in geography. Exceptions to these requirements may
be made at the discretion of the department chairperson. A student in the honors program is encouraged to
enroll, as part of her/his regular curriculum, in GEOG 4900 during the second semester of the junior year, and
GEOG 4901 in the first semester of the senior year. Each honors student will carry out an extensive program of
carefully supervised reading and research in one of the areas of geography, leading to the preparation of a
senior honors thesis. To receive honors, a student must complete both GEOG 4900 and GEOG 4901 with at least a B.
Further details about the honors program are available in the department office, Brewer A-229.

Certificate in Geographic Information Science

The course of study for the geographic information science (GIS) certificate provides theoretical and
 technological competencies that prepare students to develop and manage geographic information projects and to
interpret and implement GIS as a decision support system. The program enhances basic and applied research
capacity at the undergraduate level. A minimum cumulative 2.5 GPA is required for admission. The student must
maintain a B average in the certificate courses to remain in the program and receive the GIS certificate.

The certificate requires a minimum of 15 s.h. as follows:

1. Core .......................................................... 12 s.h.
   GEOG 2400. Spatial Data Management (3) (F) (S) [P: Sophomore standing]
   GEOG 3410. Computer Mapping (3) (F) (S) [P: GEOG 2400 or equivalent]
   GEOG 3420. Remote Sensing of the Environment I (3) (F) [P: GEOG 2400 or consent of instructor]
   GEOG 3430. Geographic Information Systems I (3) (F) (S) [P: GEOG 3400 or consent of instructor]

2. Electives (Choose from the following) .......................................................... 3 s.h.
GEOG 4410. Advanced Cartographic Design and Production (3) (S) (F) [P: GEOG 3410 or equivalent]
GEOG 4420. Remote Sensing II (3) (S) [P: GEOG 3420 or consent of instructor]
GEOG 4430. Geographic Information Systems II (3) (S) [P: GEOG 3430 or consent of instructor]

Department of Mathematics

p. 295: Renumber recently approved CSCI 5000 to CSCI 4905. Selected Topics in Computer Science (3)

Add new CSCI course as follows:

5002. Logic for Mathematics and Computer Science (3) (S) Same as MATH 5002. P: CSCI 3510 or MATH 2427 or 2775 or 3223 or 3256 or Phil 3580 or equivalent. Introduction to methods of mathematical logic that have important applications in mathematics and computer science.

p. 354-56: Revise MATH course prerequisites as follows:

2172. To read: P: MATH 2122 with a minimal grade of C or higher or MATH 2171

5102. To read: P: MATH 5101, 3256; or consent of instructor

Add new MATH courses as follows:

5000. Introduction to Sampling Design (3) (F) P: MATH 3308 or 3229 or consent of instructor. Fundamental principles of survey sampling, including data sources and types, questionnaire design, various sampling schemes, sampling and non-sampling errors and statistical analysis.

5002. Logic for Mathematics and Computer Science (3) (S) Same as CSCI 5002. P: CSCI 3510 or MATH 2427 or 2775 or 3223 or 3256 or Phil 3580 or equivalent. Introduction to methods of mathematical logic that have important applications in mathematics and computer science.

p. 102-4: Revise BA in Mathematics, C. Mathematics Major with Option in statistics as follows:

3. Common Core, revise prerequisite for MATH 2172 as above.

5. Cognates, Statistics, add courses as follows:
   BIOS 5450. Applied Multivariate Analysis. (3) P: BIOS 3501; MATH 3256; or equivalent or consent of instructor.
   MATH 5000. Introduction to Sampling Design (3) (F) P: MATH 3308 or 3229 or consent of instructor.

p. 105: BS in Mathematics, Secondary Education revise 2. Core by adding revised prerequisite for MATH 2172 as above.

pp. 106-7: Revise Minor Programs

A. Mathematics, 1. Core, revise prerequisite for MATH 2172 as above.

C. Statistics, as follows:

1. Core, revise prerequisite for MATH 2172 as above.

2. Electives, add courses as follows:
   MATH 4201. Introduction to Stochastic Processes (3) (S) P: MATH 3307 or equivalent or consent of instructor.
   MATH 5009. Introduction to Sampling Design (3) (F) P: MATH 3308 or 3229 or consent of instructor.
   BIOS 5450. Applied Multivariate Analysis. (3) P: BIOS 3501; MATH 3256; or equivalent or consent of instructor.

Department of Physics

p. 362:

Revise PHYS course description as follows:

1250, 1260. General Physics (3,3) (F) (S) (SS) (GE:SC) P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250. Basic principles of physics, including mechanics, heat, thermodynamics, electricity, magnetism, light, wave motion, and modern developments in physics.

NOTE: Where PHYS 1250 may occur in these areas of the catalogs, the prerequisite should be changed as above: BS in Biology, BA in Chemistry, Chemistry and Physics Academic Concentrations, BS in Construction Management, BS in Environmental Health, BS in Industrial Technology, BS in Exercise and Sport Science and Physical Education.
p. 383: Delete PHYS course as follows:


p. 111: Following the physics minor, add the description for accelerated MS in physics as follows:

BACHELOR OF SCIENCE AND ACCELERATED MS IN PHYSICS

Students working toward a BS degree in physics have the opportunity to earn an MS degree in two or three additional semesters of study. These students are encouraged to begin research projects as undergraduates and take advanced classes that can be used to waive some MS course requirements. As seniors they may be granted early admission to the MS program and would be eligible to receive paid teaching assistantships. To be enrolled in the MS program as a senior, students must be within 6 s.h. credit of completing all undergraduate degree requirements. Applications to the MS program should be submitted during the first semester of the senior year and must include GRE scores.

Department of Psychology

pp. 372, 390-92:

Revise PSYC 3310 (p. 390) and cross list as NEUR 3310 (p. 372) as follows:

3310. Introduction to Neuroscience (3) [F] (S) (SS) (GE:SO) Same as NEUR 3310. Introduction to neuroanatomy and neurophysiology and their relationship to behavior.

Delete PSYC courses as follows:

5327. Methods in Human Measurement (3)
5343. Psychology of Organizational Behavior (3)

Department of Sociology

p. 402: Delete SOCI banked courses as follows:

5312, 5313. Applied Social Statistics (3,0)
343. Society and the Individual (3)

SCHOOL OF ALLIED HEALTH SCIENCES

Department of Communication Sciences and Disorders

pp. 296-97: Change prefix of CSDI courses to ASLS and move to page 277 as follows:

CSDI 2020, Sign Language Studies I (3)
CSDI 2030, Sign Language Studies II (3)
CSDI 2040, Deaf Culture and the Community (3)
CSDI 3060, Sign Language Studies III (3)
CSDI 3070, Introduction to Interpreting for the Deaf (3)
CSDI 3080, Sign Language Studies IV (3)
CSDI 3090, Interpretation and Transliteration for the Deaf I (3)
CSDI 3091, Interpretation/Transliteration Laboratory (1)
CSDI 3100, Interpretation/Transliteration for the Deaf II (3)

Change the prefix of these courses to ASLS where they appear as prerequisites throughout the CSDI/ASLS course listings and in the Sign Language Studies/Pre-interpreting Minor on p. 126; also, change CSDI 2020 to ASLS 2040 in the BS in child life, the BS in recreational and leisure studies, and the alcohol and drug studies minor.

Change prerequisite for ASLS 3070 to read as follows: ASLS 2040, 3080

Department of Occupational Therapy

p. 130: BS in Occupational Therapy, 1. retitle CHEM 1120, 1121 as listed above.

Department of Physician Assistant Studies

p. 132: BS in Physician Assistant Program, 2. Cognates, renumber and retitle CHEM 2620, 2621 as listed above.

SCHOOL OF ART
p. 269: Revise prerequisite of ART 3442 to read: P: ART 2210.

   ink ART courses as follows:

   ART 3416. Materials and Processes of Environmental Design (3)
   ART 3426. Environmental Behavior and Design 93)
   ART 3440. Interior Design Studio (3)
   ART 4411. Professional Practice (3)
   ART 4414. Computers in Environmental Design 93)
   ART 4460. Urban Design (3)

p. 275: Delete ART courses as follows:

   ART 5080. Advanced Video Art I (3)
   ART 5081. Advanced Video Art II (3)

p. 266: Art Education, Add new ART courses as follows:

   5323. Art in the Secondary School (3) (F) (S) P: Acceptance into the MA T program. Art education philosophy, methodology, media, and techniques for junior and senior high school students.

   5851. Art in the Elementary School (3) (F) (S) P: Acceptance into the MAT program. Art educational philosophy, methodology, materials, processes, and specific projects for elementary classes.

   5860. Classroom Participation in Art (1) (F) (S) P: Acceptance into the MAT program. Classroom participation in the teaching of art classes and discussion of procedures used.

5870. Computers in Art Education (1) (F) (S) P: Acceptance into the MAT Program. Entry-level experiences in basic computer operations applicable to the K-12 art education classroom.

p.134: BPA in Art, delete communication arts/environmental design from second line of paragraph.

Delete item 7: Environmental Design students must ... is not required.

p. 138: Communication Arts, delete: Environmental design students take ART 2200, 2210, 3200, 3416, 3426, 3440, 3442, 4411, 4414, 4460.

Revise last paragraph to read as follows:

Communication arts courses explore creative problem solving in graphic design, illustration, and image design. Students will ... and aesthetics.

SCHOOL OF BUSINESS

p. 139: Admission, revise 3. to read as follows:

3. Completion of courses listed below or equivalent course work with a minimum grade of C in each and a 2.5 average over the eight courses: ACCT 2401 2521; ECON 2113, 2133; FINA 2244; IDS 223; MATH 1066, 2283.

SCHOOL OF EDUCATION

Department of Science Education

p. 162-64:

BS IN SCIENCE EDUCATION

Minimum degree requirement is 128 s.h. of credit as follows:

1. General education requirements and special requirements for certification (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree programs.), including those listed below: 42 s.h.
   BIOL 1100, 1101. Principles of Biology I (4,0) (F) (S) (SS) (GE:SC)
   CHEM 1150, 1151. General Chemistry and Laboratory I (3,1) (F) (S) (SS) (GE:SC) (P: Chemistry placement test or passing grade in CHEM 0150; R/C: MATH 1065)
   MATH 1065. College Algebra (3) (F) (S) (SS) (GE:MA) (P: Appropriate score on mathematics placement test)
   PSYC 1000. Introductory Psychology (3) (F) (S) (SS) (GE:SO)
   PSYC 3206. Developmental Psychology (3) (WI*) (F) (S) (SS) (GE:SO) (P: PSYC 1000 or 1060)
   History course (GE:SO)
   Literature course (GE:HU)

2. Common Core................................................................. 35-36 s.h.
BIOL 1200, 1201. Principles of Biology II (4,0) [F] (S) (SS) [GE:SC] 
CHEM 1160, 1161. General Chemistry and Laboratory I (3,1) [F] (S) (SS) [GE:SC] [C for 1160; CHEM 1160; SC: MATH 1075 or 1085] 
GEOL 1500. Physical Geology (3) [F] (S) (SS) [GE:SC] 
GEOL 1501. Physical Geology Laboratory (1) [F] (S) (SS) [GE:SC] [C: GEOL 1500] 
PHYS 1251, 1261. General Physics Laboratory I (1,1) [F] (S) (SS) [GE:SC] [C for 1251: PHYS 1250 or 2350; C for 1261: 1260 or 2360] 
SCIE 3350, 3351. Descriptive Astronomy (4,0) [S] 
SCIE 3360, 3361. Physical Meteorology (4,0) [S] [P: CHEM 1150; MATH 1085; PHYS 1250, 1260] 
SCIE 3602. Investigations in Physical and Earth Science (4) [F] (S) (SS) 
SCIE 3604. Investigations in Life and Environmental Science (4) [F] (S) (SS) 

Choose 5-6 s.h. mathematics from one area as follows:

Math and Earth Science: 
MATH 1085. Pre-Calculus Mathematics (5) [F] (S) (SS) [GE:MA] [P: MATH 1065 with a minimum grade of C] 
MATH 2121. Calculus for the Life Sciences I (3) [F] (S) (SS) [GE:MA] [P: MATH 1065 or 1077 with a minimum grade of C] and MATH 2122. Calculus for the Life Sciences II (3) [F] (S) (SS) [P: MATH 2121] 

Chemistry and Physics: 
MATH 2121. Calculus for the Life Sciences I (3) [F] (S) (SS) [GE:MA] [P: MATH 1065 or 1077 with a minimum grade of C] 
MATH 2122. Calculus for the Life Sciences II (3) [F] (S) (SS) [P: MATH 2121] 

3. Teaching area concentration (Choose one from the following.) 20-23 s.h.

Biology (20 s.h.): 
BIOL 2110, 2111. Fundamentals of Microbiology (4,0) [F] (S) [P: 4 s.h. in BIOL and 8 s.h. in CHEM] 
BIOL 2250. Ecology (3) [F] (S) (SS) [P: BIOL 1100, 1101, 1200, 1201] 
BIOL 2251. Ecology Laboratory (1) [F] (S) (SS) [P: BIOL 1100, 1101, 1200, 1201; C: BIOL 2250] 
BIOL 2300. Principles of Genetics (3) [F] (S) (SS) [P: 2 BIOL courses] 
BIOL 3100, 3101. Basic Laboratory Methods for Biotechnology (3,0) [P: BIOL 2300; CHEM 1160, 1161] or BIOL 3520. Biological Evolution (3) [P: BIOL 2300 or consent of instructor] 
PHYS 1250, 1260. General Physics (3,3) [F] (S) (SS) [GE:SC] [P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250] 

Chemistry (23 s.h.): 
CHEM 2250, 2251. Quantitative and Instrumental Analysis (3,2) [WI] (F) (S) [P: CHEM 1160, 1161; 1 organic CHEM course] 
CHEM 2750. Organic Chemistry I (3) [F] (S) (SS) [P: CHEM 1160, 1161; C: CHEM 2731 or 2751] 
CHEM 3450, 3451. Elementary Inorganic Chemistry and Laboratory (3,1) [WI] (S) [P: CHEM 2250, 2251] 
CHEM 3850, 3851. Introduction to Physical Chemistry (4,1) [WI] (F) [P: CHEM 1160, 1161; MATH 2122 or 2172; PHYS 1260] 

PHYS 1250, 1260. General Physics (3,3) [F] (S) (SS) [GE:SC] [P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250] 

Earth Science (2 s.h.): 
GEOL 1500. Oceanography (4) [S] (GE:SC) [P: Basic science course in BIOL, CHEM, GEOL, or PHYS] 
GEOL 1600. Historical Geology (3) [S] (GE:SC) 
GEOL 1700. Environmental Geology (4) [F] (S) (SS) [GE:SC] [P: Basic BIOL, CHEM, GEOL, or PHYS course] 
GEOL 3000, 3001. Mineralogy (4,0) [F] [P: A 1000-level GEOL course; P:C: CHEM 1150, 1151] 
PHYS 1250, 1260. General Physics (3,3) [F] (S) (SS) [GE:SC] [P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250] 

Physics (20 s.h.): 
PHYS 2350, 2360. University Physics (4,4) [F] (S) (SS) [GE:SC] [C: MATH 2121 or 2171; P: PHYS 2350] 
PHYS 4120. Thermodynamics (3) [P: PHYS 2350] 
PHYS 4310. Modern Optics (3) (F00) [P: PHYS 2360] 
PHYS 4416. Modern Physics I (3) [F] [P: PHYS 2360] 
PHYS 4417. Modern Physics II (3) (S) [P: PHYS 4416] 

4. Professional studies: 27 s.h. 
EDUC 4001. Technology in Education (2) [F] (S) [P: Admission to upper division] 
EDUC 3200. Introduction to American Education (3) (W)* (F) (S) (SS) [P: Early experience course or consent of instructor] 
EDUC 4400. Foundations of School Learning, Motivation, and Assessment (3) [F] (S) [P: Admission to upper division] or ESYC 4305. Educational Psychology (3) [F] (S) (SS) [P: PSYC 2231 or 2240 or 3206 or 3240 or equivalent] 
READ 3990. Reading Teaching in the Content Areas in the Secondary School (2) [F] (S) (SS) or READ 5317. Reading in the Junior and Senior High School (3) [F] (S) SCIE 2123. Early Experiences for the Prospective Teacher (1) (F) (S) 
SCIE 4323. The Teaching of Science in High School (3) [F] (S) [P: Admission to upper division] 
SCIE 4324. Internship in Science Education (10) [F] (S) [P: Admission to upper division; SCIE 4323; C: SCIE 4325] 
SCIE 4325. Internship Seminar: Issues in Science Education (1) [F] (S) [P: Admission to upper division; C: SCIE 4324] 
SPED 4010. Exceptional Students in the Regular Classroom (2) [F] (S) [P: SPED 2000] 

5. Electives to complete requirements for graduation.
Delete EXSS courses as follows:
2800. Human Kinetics and Motor Learning (3)
4403. Organization and Administration of Physical Education (3)

Delete EXSS Banked Courses as follows:
1013. Elementary Soccer (1)
1024. Elementary Field Hockey (1)
1107. Square Dancing (1)
1108. Elementary Modern Dance (1)
1112. Folk Dance (1)
1113. Advanced Social Dance (1)
1115. Tap Dance (1)
1132. Advanced Soccer (1)
1136. Synchronized Swimming (1)
1146. Advanced Swimming (1)
2300. Foundations of Movement (2)
2530. Group Games of Low Organization (2)
2760. Skills and Methods - Golf (1)
2761. Skills and Methods - Badminton and Bowling (1)
2763. Skills and Methods - Swimming (1)
2764. Skills and Methods - Water Sports (1)
2765. Skills and Methods - Tumbling (1)
2766. Skills and Methods - Education Gymnastics (1)
2767. Skills and Methods - Gymnastics (1)
2772. Skills and Methods - Field Hockey (1)
2773. Skills and Methods - Volleyball (1)
2784. Skills and Methods - Modern Dance (1)
2785. Skills and Methods - Folk Dance and Square Dance (1)
3560. Practices and Procedures in Early Childhood Physical Education (2)
3570. Creative Movement and Dance for Children (2)
7893. Skills and Methods - Basketball (1)
7894. Skills and Methods - Baseball and Softball (1)
3796. Skills and Methods - Soccer and Speedball (1)
3797. Skills and Methods - Football and Flag Football (1)
3790. Skills and Methods - Wrestling (1)
3791. Skills and Methods - Track and Field (1)
3793. Skills and Methods - Tennis (1)
3794. Skills and Methods - Archery and Racquetball (1)

Delete EXSS or PHYE courses under the following numbers as recorded in the registrar's office: 1124, 1140, 1231, 1251, 1255, 1261, 1271, 1291, 1294, 2231, 2251, 2255, 2261, 2271, 2281, 2291, 2294, 2778, 2779, 4906, 5304. Also, delete all PHYE and PRC courses.

p. 342-43: Delete HLTH 3870 and 5313 as recorded in the registrar's office.

Add new HLTH courses as follows:
3200. Field Experience in Athletic Training I (1) (F) 1 lecture per week and clinical assignments for the semester. C: Current participation in the athletic training curriculum, HLTH 3810. Introduction into the field experience in athletic training, including supervised medical coverage of athletics teams. Current first-aid and CPR certifications and proof of medical malpractice insurance are required for the duration of the course.

4300. Field Experience in Athletic Training II (1) (F) (S) (SS) 1 lecture per week and clinical assignments for the semester. P: HLTH 3250, 3251, 3810, 3820; C: Current participation in the athletic training curriculum. Field experience in allied health settings relevant to athletic training. Current first-aid and CPR certifications and proof of medical malpractice insurance are required for the duration of the course.

p. 395-94: Delete RCLS courses as follows:
3191, 3192. Work Experience through Community/Commercial Recreation Agencies (2,2)
4600. as recorded in the registrar's office
4801, 4802, 4803. Topics in Leisure Services (1,2,3)

Department of Exercise and Sports Science
3200. Introduction to Professional Nursing (3) (F) (S) P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUMH 2105; PSYC 3206. Introduces conceptual and philosophical foundations of professional nursing.

3210, 3211. Nurse As Care Provider (6) (F) (S) 3 lecture hours and 9 practicum hours per week. P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUMH 2105; PSYC 3206. G: NURS 3020, 3040, 3200, 3270. Emphasizes a holistic view of the adult client in acute care settings, the theoretical foundations of wellness and illness, and their relationship to nursing practice.

3270. Clinical Nursing Foundations I (2) (F) (S) 1 lecture and 2 lab hours per week. P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUMH 2105; PSYC 3206. G: NURS 3200. Introduces basic skills required for professional nursing practice.

3330, 3331. Nursing Care of Families During the Childbearing Phase (5) (F) (S) 3 lecture and 6 practicum hours per week. P: All required NURS courses below 3330. C: NURS 3370, 3410. Provides theoretical foundations and clinical experiences in the nursing care of families during the childbearing phase.

3340, 3341. Nursing Care of Children (5) (F) (S) 3 lecture and 6 practicum hours per week. P: All required NURS courses below 3330. C: NURS 3370, 3410. Provides theoretical foundations and clinical experiences in the nursing care of children and their families.

3370. Clinical Nursing Foundations II (2) (F) (S) 1 lecture and 2 lab hours per week. P: All required NURS courses below 3330. Introduces intermediate and advanced skills required for professional nursing practice.

3410. Concepts of Pathophysiology for Nursing (3) (F) (S) P: All required NURS courses below 3330 or consent of instructor. Focuses on the etiology, mechanism, and clinical presentation of alterations in physiology.

3510. Nursing Research (3) (F) (S) (SS) P: All required NURS courses below 3330 or consent of instructor; and an approved statistics course. Introduction to the research process and illustrates how research shapes nursing practice, education, and public policy.

3520. Trends and Issues in Professional Nursing (3) (WI) (F) (S) (SS) P: All required NURS courses below 3330 or consent of instructor. Analysis of trends and issues affecting professional nursing practice in a global health care environment.

4010, 4011. Nursing Care of Clients With Alterations in Mental Health (5) (F) (S) 3 lecture and 6 practicum hours per week. P: All required NURS courses below 3500. Theoretical foundations and clinical experiences specific to promotion of mental health, maintenance of optimal functioning and maximization of quality of life for clients with alterations in mental health.

4020, 4021. Nursing Care of Adults (5) (F) (S) 2 lecture and 9 practicum hours per week. P: All required NURS courses below 3500. Theoretical foundations and clinical experiences specific to the nursing care of adults within a family experiencing complex alterations in health.

4100. Health of the Older Adult (2) (F) (S) P: All required NURS courses below 3500 or consent of instructor. Considers conceptual and philosophical approaches to aging along the wellness-illness continuum.

4150. Nursing Leadership (3) (F) (S) P: All required NURS courses below 4000. Theoretical and organizational frameworks for understanding the essential elements of nursing leadership.

4210, 4211. Nursing Care of Populations and Communities (6) (F) (S) 3 lecture and 9 practicum hours per week. P: All required NURS courses below 4200. Theoretical foundations and clinical experiences specific to nursing care of populations and communities.

4500. Theory Capstone (3) (WI)* (F) (S) P: All required NURS courses below 4200. C: NURS 4210/4211. Provides an opportunity to synthesize previous learning for transition into professional nursing practice.

4511. Clinical Capstone (5) (F) (S) 2 seminar and 12 practicum hours per week. P: All required NURS courses below 4200. C: NURS 4210/4211, 4500. Manages, coordinates, and delivers nursing care in selected settings based on application of previous learning.

p. 214: Curriculum, add text as follows:

All students are required to demonstrate computer competency, which can be met by placement or enrollment in ASIF 2000. This course will not meet graduation requirements.

Extensive revisions to BS in Nursing. Degree to appear as follows:

BS IN NURSING (BSN)

Minimum degree requirement is 127 s.h. of credit as follows:

1. General education requirements (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs), including those listed below. ......................... 42 s.h.
   CHEM 1120. Basic General, Organic, and Biochemistry I (4) (F) (S) [GE:SC]
   CHEM 1130. Basic General, Organic, and Biochemistry II (3) (F) (S) [GE:SC] [F:CHEM 1120]
PSYC 1000. Introductory Psychology (3) (F) (S) (SO) (GE:SO)
PSYC 3206. Developmental Psychology (3) (WI*) (F) (S) (SS) (GE:SO) [P: PSYC 1000 or 1060]

SOCI 2110. Introduction to Sociology (3) (F) (S) (SS) (GE:SO)

An approved 3 s.h. ethics course

2. Common Core .......................................................... 46 s.h.
BIOL 1050. General Biology (3) (F) (S) (SS) (GE:SC)
BIOL 2110. Fundamentals of Microbiology (4,6) (F) (S) [P: 4 s.h. in BIOL and 8 s.h. in CHEM]
BIOL 2130. Survey of Human Physiology and Anatomy (4) (F) (S) (SS) [P: BIOL 1050, 1061 or 1100, 1101]
BIOL 2131. Survey of Human Physiology and Anatomy Laboratory (1) (F) (S) (SS) [P/C: BIOL 2130]
NUHM 2105. Nutrition (3) (F) (S) (SS)
NURS 3410. Concepts of Pathophysiology for Nursing (3) (F) (S) [P: All required NURS courses below 3330 or consent of instructor]
NURS 3510. Nursing Research (3) (F) (S) (SS) [P: All required NURS courses below 3330 or consent of instructor, and an approved statistics course]
NURS 3520. Trends and Issues in Professional Nursing (3) (WI) (F) (S) (SS) [P: All required NURS courses below 3330 or consent of instructor]
NURS 4100. Health of the Older Adult (2) (F) (S) [P: All required NURS courses below 3500 or consent of instructor]
NURS 4150. Nursing Leadership (3) (F) (S) [P: All required NURS courses below NURS 4000]
NURS 4210, 4211. Nursing Care of Populations and Communities (6) (F) (S) [P: All required NURS courses below 4200]
NURS 4500. Theory Capstone (3) (WI*) (F) (S) [P: All required NURS courses below 4200; C: NURS 4210/4211]
NURS 4510. Clinical Capstone (5) (F) (S) [P: All required NURS courses below 4200; C: NURS 4210/4211, 4500]

3. Specialization area (Choose one.) ........................................... 38 s.h.

Professional Nursing:
NURS 3020. Health Assessment (3) (F) (S) [P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUHM 2105; PSYC 3206]
NURS 3020. Introduction to Professional Nursing (3) (F) (S) [P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUHM 2105; PSYC 3206]
NURS 3210, 3211. Nurse As Care Provider (6) (F) (S) [P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUHM 2105; PSYC 3206; C: NURS 3200]
NURS 3270. Clinical Nursing Foundations I (2) (F) (S) [P: Admission to the NURS major; BIOL 1050, 2110, 2111, 2130, 2131; CHEM 1120, 1130; MATH 1065 or 2127 (logic may not be substituted); NUHM 2105; PSYC 3206; C: NURS 3200]
NURS 3330, 3331. Nursing Care of Families During the Childbearing Phase (5) (F) (S) [P: All required NURS courses below 3300; C: NURS 3370, 3410]
NURS 3340, 3341. Nursing Care of Children (5) (F) (S) [P: All required NURS courses below 3330; C: NURS 3370, 3410]
NURS 3370, 3410. Clinical Nursing Foundations II (2) (F) (S) [P: All required NURS courses below 3330]
NURS 4010, 4011. Nursing Care of Clients with Alterations in Mental Health (5) (F) (S) [P: All required NURS courses below 3500]
NURS 4020, 4021. Nursing Care of Adults (5) (F) (S) [P: All required NURS courses below 3500]

Registered Nurse Students:
*NURS 3900. Concepts in Professional Nursing (3) (WI) (F) (S) [P: RN status; completion of required sciences, general education, and cognate courses; consent of RN/BSN director; P/C: NURS 3060; C: NURS 3901]
*NURS 3901. Practicum in Concepts in Professional Nursing (2) (F) (S) [P: RN status; completion of required sciences, general education, and cognate courses; consent of RN/BSN director; P/C: NURS 3060; C: NURS 3900]
Upon successful completion (minimum grade of C) in NURS 3900, 3901, students meet the competencies listed above for professional nursing and receive placement credit for 32 hours of selected junior-level courses.

4. Electives to complete requirements for graduation