University Curriculum Committee

Catalog Copy of March 8, 2001

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Correction to the minutes of 3-08-01 to include the following:

Remove BIOL 1050, 2130, 2131 from the BSN degree requirements and include BIOL 2140, 2141, 2150, 2151.

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College of Arts and Sciences

Department of Geography

p. 343: Revise GEOG course as follows:

4325. Resources, Population, and Development (3) (GE:SO) (WI) Formerly GEOG 3000. P: GEOG 2003 or consent of instructor. Demographic issues and population policies in relation to resource use and economic development from a geographical perspective.

p. 343-344: Add new GEOG courses as follows:

4330. Agricultural Geography (3) (GE:SO) Contemporary trends in the global restructuring of agro-food systems in both industrialized and developing nations.

4335. Geography of Tourism (3) (GE:SO) Traditional and emerging forms of tourism development as they transform economic, social, cultural, and environmental landscapes inside and outside the U.S.

4999. Geography Professional Seminar (1) (F) (S) P: Consent of instructor. Design and completion of professional portfolio. Examines the transition from undergraduate student status to professional life or continued education.


p. 343: Correct prerequisite for GEOG 3430 from GEOG 3400 to read as follows:

P: GEOG 2400 or consent of instructor.

p. 101: Add Geography Professional Seminar (4999) in both the BA and BS Geography degrees as follows:

**BA IN GEOGRAPHY**

Minimum degree requirement is **126 s.h.** of credit as follows:

1. General education (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs.) **42 s.h.**

2. Foreign language through level 1004 **12 s.h.**

3. Common core **19 s.h.**

GEOG 2100. World Geography: Developed Regions (3) (F) (S) (SS) (GE:SO) or GEOG 2110. World Geography: Less Developed Regions (3) (F) (S) (SS) (GE:SO) or GEOG 3046. United States and Canada (3) (F) (GE:SO) or GEOG 3047. Western Europe (3) (S) (GE:SO) or GEOG 3049. South America (3) (F) (GE:SO) or GEOG 3050. Africa (3) (S) (GE:SO) or GEOG 3051. Asia (3) (S) (GE:SO) or GEOG 3056. Middle America (3) (GE:SO)

GEOG 2500. Map and Aerial Photo Interpretation (3) (F) (S) (SS)

GEOG 3400. Quantitative Techniques in Geography (3) (F) [P: GEOG 2400; MATH 1065; or equivalent]

GEOG 4999. Geography Professional Seminar (1) [P: Consent of instructor]

**APPLIED GEOGRAPHY**

Minimum degree requirement is **126 s.h.** of credit as follows:
1. General education (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs.), including those listed below **42 s.h.**

MATH 1065. College Algebra (3) (F) (S) (SS) (GE:MA) [P: Appropriate score on mathematics placement test]

SPCH 2510. Public Speaking (3) (F) (S) (SS) (GE:FA) or SPCH 2520. Business and Professional Communication (3) (F) (S) (SS) (GE:FA)

2. Core

GEOG 4999. Geography Professional Seminar. (1) [P: Consent of instructor]

(Choose a minimum of 27 s.h. above 2999, including a maximum of 3 s.h. of supervised study in each of the categories below.) **46 s.h.**

**Human (12 s.h. as follows):**

GEOG 2100. World Geography: Developed Regions (3) (F) (S) (SS) (GE:SO) or GEOG 2110. World Geography:

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**School of Art**

*p. 281:* Revise ART course as follows:

**3960. Art and Power in Mesoamerica (3) (F)** P: ART 1906, 1907. Chronological survey of major Mesoamerican cultures and how the visual arts they produce reflect aspects of religious and political power.

*p.281:* Add new Art course as follows:

**3961. Native North American Art and Ritual (3) (SP)** P: ART 1906, 1907. Overview of major Pre-Columbian North American cultures and how visual arts created by native artists were part of their ritual, religious, and everyday lives. Covers cultural changes due to European impact.

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**School of Computer Science and Communication**

**Department of Computer Science**

*p. 112:* Rename the concentration areas under BS in Computer Science as follows:

Old: Systems Programming

New: Systems Development

Old: Data Processing

New: Applications Development

*p. 112:* Add the degree requirements for the Department of Computer Science as follows:

Students enrolled at East Carolina University or transferring from other institutions may be considered for admission to the Department of Computer Science provided the following departmental requirements are met. A student must have completed a minimum of 39 s.h. with a minimum cumulative 2.0 GPA and have a minimum 2.4 GPA computed on CSCI 2510, 2610, 2611.

These changes are shown in the following catalog listing.

**SCHOOL OF COMPUTER SCIENCE AND COMMUNICATION**

*Michael Poteat, Interim Dean, Erwin*

**DEPARTMENT OF COMPUTER SCIENCE**

*Robert Bernhardt, Interim Chair*

**ADMISSION REQUIREMENTS**

Students enrolled at East Carolina University or transferring from other institutions may be considered for admission to the Department of Computer Science provided the following departmental requirements are met. A student must have
completed a minimum of 39 s.h. with a minimum cumulative 2.0 GPA and have a minimum 2.4 GPA computed on CSCI 2510, 2610, 2611.

**BA IN COMPUTER SCIENCE**

Credit toward a computer science major will not be given for any CSCI course with a grade less than C. Minimum degree requirement is 126 s.h. of credit as follows:

1. General education (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs.) **42 s.h.**

2. Foreign language through level 1004 (preferably French, German, or Russian) **12 s.h.**

3. Core **34 s.h.**

CSCI 2510. Introduction to Computer Science I (3) (F,S,SS) [P: MATH 1065 or 1066]

CSCI 2610, 2611. Introduction to Computer Science and Laboratory II (4,0) (F,S,SS) [P: CSCI 2510; C for 2610: CSCI 2611; C for 2611: CSCI 2610]

CSCI 3510. Data Structures (3) (F,S,SS) [P: CSCI 2610; MATH 2119 or 2171]

CSCI 3601. Computer Organization and Programming (3) (F,S) [P: CSCI 3510 or 3526]

CSCI 3675. Organization of Programming Language (3) (F,SS) [P: CSCI 3510]

CSCI 4200. Software Design and Development (3) (WI) (F) [P: CSCI 3510 and computer science major]

CSCI 4630. Operating Systems I (3) (SS) [P: CSCI 3601 and computer science major]

Choose 12 s.h. CSCI courses above 1999, excluding CSCI 2600, 5774

4. Cognates **6-7 s.h.**

MATH 2119. Elements of Calculus (3) (F,S,SS) (GE:MA) [P: MATH 1065 with a minimum grade of C] or MATH 2122. Calculus for the Life Science II (3) (F,S,SS) [P: MATH 2121] or MATH 2171. Calculus I (4) (F,S,SS) (GE:MA) [P: MATH 1085 or 2122 with a minimum grade of C]

MATH 3584. Computational Linear Algebra (3) (F,S,SS) [P: A Calculus course]

MATH 2427. Discrete Mathematical Structures (3) (F,S,SS) [P: MATH 1065 or 1066]

5. Minor and electives to complete requirements for graduation.

**BS IN COMPUTER SCIENCE**

Credit toward a computer science major will not be given for any CSCI course with a grade less than C. Minimum degree requirement is 126 s.h. of credit as follows:

1. General education (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs.), including those listed below **42 s.h.**

SPCH 2510. Public Speaking (3) (F,S,SS) (GE:FA) or SPCH 2520. Business and Professional Communication (3) (F,S,SS) (GE:FA)

PHIL 2275. Professional Ethics (3) (WI*) (F,S,SS) (GE:HU)

2. Common core **22 s.h.**

CSCI 2510. Introduction to Computer Science I (3) (F,S,SS) [P: MATH 1065 or 1066]

CSCI 2610, 2611. Introduction to Computer Science and Laboratory II (4,0) (F,S,SS) [P: CSCI 2510; C for 2610: CSCI 2611; C for 2611: CSCI 2610]
CSCI 3510. Data Structures (3) (F,S,SS) [P: CSCI 2610; MATH 2119 or 2171]

CSCI 3601. Computer Organization and Programming (3) (F,S) [P: CSCI 3510 or 3526]

CSCI 3675. Organization of Programming Language (3) (F,SS) [P: CSCI 3510]

CSCI 4200. Software Design and Development (3) (WI) (F) [P: CSCI 3510 and computer science major]

CSCI 4630. Operating Systems I (3) (SS) [P: CSCI 3601 and computer science major]

3. Concentration area (Choose one.) 12 s.h.

**Data-Processing: Applications Development**

CSCI 2618. COBOL (3) (F,S,SS) [P: CSCI 1610; 2600 OR 2610]

CSCI 3650. Analysis of Algorithms (3) (S) [P: CSCI 3510; MATH 2427]

CSCI 3700. Database Management Systems (3) (F) [P: CSCI 2618 or 3510]

CSCI 4510. Object-Oriented Computing and Graphical User Interfaces (3) (S) [P: CSCI 3510]

**Systems-Programming: Systems Development**

CSCI 3526. Switching Theory and Computer Organization (3) (F,S,SS) [P: CSCI 2610; MATH 2427]

CSCI 3650. Analysis of Algorithms (3) (S) [P: CSCI 3510; MATH 2427] or CSCI 4602. Theory of Automata and Linguistics (3) (F) [P: MATH 2427 and computer science major]

CSCI 4520. Introduction to Computer Architecture (3) (S) [P: CSCI 3526, 3601; computer science major]

CSCI 4627. Procedural Languages and Compilers (3) (S) [P: CSCI 3601, 3675; computer science major]

4. Supporting area of concentration (Choose one from a. through d.)* 12 s.h.

a. Choose an additional 12 s.h. in MATH acceptable for a mathematics major

b. Choose an additional 12 s.h. in ACCT and/or DSCI

c. ELEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S,SS) [P: MATH 1065; ITEC 2000, 2001]

ELEC 2150, 2151. Circuit Analysis (3,0) (F,S) [P: ELEC 2054, 2055; MATH 1074; RC: ELEC 3150, 3151]

ELEC 3150, 3151. Digital Systems (3,0) (F,S) [RC: ELEC 2150, 2151] Choose 3 s.h. from:

ELEC 3056, 3057. Industrial Solid-State Control (3,0) (F,S) [P: ELEC 2150, 2151]

ELEC 4050, 4051. Microprocessor: Systems and Applications (3,0) (F) [P: ELEC 3150, 3151]

d. Choose 12 s.h. from:

ENGL 3750. Introductory Linguistics (3) (GE:HU) [P: ENGL 1200]

PHIL 1180. Introduction to Critical Reasoning (3) (WI*) (S) (GE:HU)

PHIL 1500. Introduction to Logic (3) (F,S,SS) (GE:HU) (GE:MA)
PHIL 3580. Intermediate Logic (3) [P: PHIL 1500 or MATH major or consent of instructor]

PHIL 3255. Philosophy of Mind (3) (F) (GE:HU) (Formerly PHIL 5255) [P: 3 s.h. in PHIL or consent of instructor]

PHIL 4283. Philosophy of Language (3) (S) (GE:HU) (Formerly PHIL 5283) [P: 3 s.h. in PHIL or consent of instructor]

PSYC 3226. Human Learning and Cognition (3) (GE:SO) [P: PSYC 1000]

5. Cognates **18-19 s.h.**

ENGL 3880. Writing for Business and Industry (3) (WI) (F,S,SS) [P: ENGL 1200] or ITEC 3290. Technical Writing (3) (WI) (F,S,SS) [P: ENGL 1200]

MATH 2119. Elements of Calculus (3) (F,S,SS) (GE:MA) [P: MATH 1065 with a minimum grade of C) or MATH 2122. Calculus for the Life Sciences II (3) (F,S,SS) [P: MATH 2121] or MATH 2171. Calculus I (4) (F,S,SS) (GE:MA) [P: MATH 1085 or 2122 with a minimum grade of C]

MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) [P: MATH 1065 or equivalent] or MATH 2283. Statistics for Business (3) (F,S,SS) [P: MATH 1065 or 1066 or equivalent] or MATH 3307. Mathematical Statistics I (3) (F,S,SS) [P: MATH 2172]

MATH 2427. Discrete Mathematical Structures (3) (F,S) [P: MATH 1065 or 1066]

MATH 3584. Computational Linear Algebra (3) (F,S,SS) [P: A calculus course]

MATH 3308. Mathematical Statistics II (3) (F) [P: MATH 3307] or MATH 3229. Elementary Statistical Methods II (3) (F,S) [P: MATH 3228 or equivalent] or CSCI 5774. Programming for Research (3) (F,S) [P: General course in statistics or consent of instructor]

6. CSCI electives (excluding CSCI 2600, 5774) **6 s.h.**

7. Electives to complete requirements for graduation.

*Requirements for 4. and 7. may be met by satisfying the requirements for a minor.

**Computer Science Minor**

Minimum requirement for computer science minor is **25 s.h.** of credit as follows:

1. Core **16 s.h.**

CSCI 2510. Introduction to Computer Science I (3) (F,S,SS) [P: MATH 1065 or 1066]

CSCI 2610, 2611. Introduction to Computer Science and Laboratory II (4,0) (F,S,SS) [P: CSCI 2510; C for 2610: CSCI 2611; C for 2611: CSCI 2610]

CSCI 3510. Data Structures (3) (F,S,SS) [P: CSCI 2610; MATH 2119 or 2171]

MATH 2119. Elements of Calculus (3) (F,S,SS) (GE:MA) [P: MATH 1065 with a minimum grade of C] or equivalent

MATH 3256. Linear Algebra (3) (F,S,SS) [P: MATH 2172] or MATH 3584. Computational Linear Algebra (3) (F,S,SS) [P: A calculus course] Math 2427

Discrete mathematical stuctures (3) (F,S,SS) [P: Math 1065 or 1066]

2. CSCI electives above 1999 **9 s.h.**
p. 310: Change the prerequisites for CSCI 3510 as follows:

**3510. Data Structures (3) (F) (S) (SS)** P: CSCI 2610; P/C: MATH 2427

p. 310: Bank CSCI courses as follows:

**2901. Programming in ADA (1)**

**2902. Programming IN C (1)**

**4600. Systems Analysis (3)**

p. 310: Add new CSCI courses as follows:

**2427. Discrete Mathematical Structures (3) (F) (S)** Same as MATH 2427. May not count toward a MATH major or minor. May receive credit for only one of CSCI 2427, MATH 2775 and MATH 3237. P: MATH 1065 or 1066. Emphasis on structures most important in computer science. Considers practical applications.

**3584. Computational Linear Algebra (3) (F) (S) (SS)** Same as MATH 3584. May not count toward MATH major or minor. P: Calculus course. Vectors, matrices and determinants. Emphasis on application of linear algebra to solution of practical problems.

p. 310: Cross list MATH 2427 as CSCI 2427 and MATH 3584 as CSCI 3584.

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**School of Education**

**Department of Business, Vocational, and Technical Education**

p. 165: Revise BSBE in Information Technologies as follows:

BSBE IN INFORMATION TECHNOLOGIES

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.

ART 1910. Art Appreciation (2) (F) (S) (GE:FA) or MUSC 2208. Music Appreciation (2) (F) (S) (SS) (GE:FA)
ECON 2113. Principles of Microeconomics (3) (F) (S) (SS) (GE:SO)
HIST 2121. American Business History (3) (WI*) (GE:SO)
MATH 1065. College Algebra (3) (F) (S) (SS) (GE:MA) [P: Appropriate score on mathematics placement test] or MATH 1066. Applied Mathematics for Decision Making (3) (F) (S) (SS) (GE:MA) [P: Appropriate score on mathematics placement test or approval of department chair]
PSYC 1000. Introductory Psychology (3) (F) (S) (SS) (GE:SO)

Choose a literature course (GE:HU)

Choose a speech course (GE:FA)

2. Core........................................................................................................... 79 s.h.

ASIP 1500, 1501. Electronic Information Processing I (3,0) (F) (S) (SS)
ASIP 2112. Introduction to Information Processing Technology (3) (F) (S) (SS)
ASIP 2212, 2213. Basic Programming for Business Applications (3,0) (F) (S) [P: ASIP 2112 or equivalent]
ASIP 2311, 2312. Financial Information Systems (3,0)(F) (S)
ASIP 2500, 2501. Electronic Information Processing II (3,0) (F) (S) [P: ASIP 1500 or consent of instructor]
ASIP 3220. Business Communications (3) (F) (S) [P: ENGL 1200]
ASIP 3228. Administrative Management (3) (F) (S)

*ASIP 3294. Internship: Supervised Work Experience (4) (F) (S) (SS) [P: Consent of departmental coordinator and at least 1 semester as a full-time ECU student]

ASIP 3311, 3312. Financial Information Systems II (3,0) (F) (S) [P: ASIP 2311]
ASIP 3500, 3501. Electronic Information Processing III (3,0) (F) (S) [P: ASIP 2500 or equivalent]

ASIP 4200, 4201. Microcomputer Business Applications (3,0) (F) (S) [P: ASIP 2500 or consent of instructor]

ASIP 4300. Administrative Office Procedures (3) (F) (S)

ASIP 4500. Information Processing Systems Design (3) (F) (S) [P: ASIP 2212, 2213, 2500; or equivalent] or DSCI 3063. Management Information Systems I (3) (F) (S) (SS) [P: ACCT 2521]

ASIP 5200, 5201. Microcomputer Business Graphics Applications (3,0) (F) (S) (SS) [P: ASIP 4200 or consent of instructor] or DSCI 4133. Information Systems Management (3) (WI) (S) [P: DSCI 3063]

BVTE 3200. Distribution Technology I: Merchandising (3) (F)

add - BVTE 3301. Distribution Technology I: Advertising (3) (F)

BVTE 4390. Consumer Financial Management (3) (WI) (F) (S)

ENGL 2730. Functional Grammar (3) (F) (S) (SS) [P: ENGL 1200]

FINA 2244. Legal Environment of Business (3) (F) (S) (SS)

MATH 2228. Elementary Statistical Methods I (3) (F) (S) (SS) [P: MATH 1065 or equivalent] or MATH 2283. Statistics for Business (3) (F) (S) (SS) [P: MATH 1065 or 1066 or equivalent]

MGMT 3202. Fundamentals of Management (3) (F) (S) (SS) [P: ECON 1000 or 2113] add - or 3 s.h. major electives above 2999

MGMT 4402. Human Resource Management (3) or MGMT 4422. Labor Relations (3) (S) [P: MGMT 3202] add - or 3 s.h. major electives above 2999

PSYC 3221. Social Psychology (3) (F) (S) (SS) (GE:SO) add – or PSYC 3241. Personnel and Industrial Psychology (3) (F) (S) (SS) (GE:SO)

delete – PSYC 3241. Personnel and Industrial Psychology (3) (F) (S) (SS) (GE:SO)

Choose 6 s.h. major electives above 2999

*Students who have met work experience requirement should take 4 s.h. of electives in the major.

3. General electives to complete requirements for graduation.

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Department of Elementary and Middle Grades Education

p. 324: Revise prerequisites and corequisites for ELM courses as follows:

4324. Internship in the Elementary School ... P: EDTC 4001; EDUC 4400 or PSYC 4305; ELEM 3236, 3250, 4525, 4551; MATH 3223; READ 3210; SCIE 3216; C: ELEM 4526.

4325. Internship Seminar: Issues in Elementary Education ... P: Admission to upper division; C: ELEM 4526.

4525. Classroom Organization and Management in the Early Childhood and Elementary School ... P: Admission to upper division.

4526. Practicum in Classroom Organization and Management ... P: Admission to upper division; ELEM 3235, 3236; C: ELEM 4324,4325.

4550. Social Studies in the Early Childhood and Elementary School ... P: Admission to upper division; minimum of 9 s.h. in social studies content courses; ELEM 3236; C: ELEM 4551.

p. 376-377: Revise prerequisites and corequisites for MIDG as follows:

3001. The Middle Grades... P/C: MIDG 2123

4324. Internship in the Middle Grades... P: Admission to upper division; EDTC 4001; EDUC 3200; EDUC 4400 or PSYC 4305; MIDG 4001, 4010; READ 5317; two of the following methods courses: HIST, MATH, MIDG, SCIE, 4319 C: ELEM 4325.

p. 161: Revise second paragraph under "Additional Requirements..." to read as follows:
Prior to the internship, elementary education majors must have completed the following courses with a minimum grade of C: ART 3850; EDUC 3200; PSYC 4305 or EDUC 4400; ELEM 2123, 3235, 3236, 3250, 4525, 4526, 4550, 4551; ENGL 1100, 1200; a literature course other than children’s literature; ENGL 4950 or LIBS 4950; EXSS 3545; HLTH 3244; MATH 2127, 2129, 3223; MUSC 3018; READ 3204, 3210; SCIE 3216; SPED 4010.

School of Health and Human Performance

Department of Exercise and Sport Science

p. 335 Add new EXSS course and cross list with NUHM 5001:

5001. Nutrition and Exercise (3) (S) Same as NUHM 5001. P: EXSS 4805; NUHM 2105; or consent of instructor. Relationship of basic nutrition principles to sport and physical activity.

p.177: In the B.S. in Physical Activity and Fitness change "2 s.h. EXSS activities" to "2 s.h. approved EXSS electives".

p. 335: Revise EXSS course as follows:

4800. Internship in Physical Activity and Fitness (12) (F) (S) (SS) 480 hours per semester. P: Satisfactory completion of all other degree requirements or consent of dept chair. Supervised field experience providing an opportunity to develop applied competence in physical activity and fitness leadership.

p. 333: Change course title and course description for EXSS 2202 as follows:

2202. Motor Learning and Performance (3) (F) (S) (SS) Introduction to fundamental principles involved in learning and performing motor skills in variety of contexts.

p. 336: Change course title and course description for EXSS 5800 as follows:

5800. Physical Activity and Aging (3) (F) (S) (SS) P: GERO 2400 or consent of instructor. Role of physical activity and exercise in enhancing quality of life and remediating normal aging deficits and age-related disease. Includes physiological, cognitive, and affective perspectives.

p. 334: Change name and course description of EXSS 3850 from Kinesiology as follows:

3850. Introduction to Biomechanics (3) (F) (S) (SS) 2 2-hour lecture/lab classes per week. P: BIOL 2130, 2131; PHYS 1250, 1251; or consent of instructor. Fundamentals of neuromuscular function and biomechanics of human movement in healthy, injured, and diseased populations

p. 334: Renumber EXSS from 4805 to 3805.

3805. Physiology of Exercise.

p. 336: Unbank EXSS 1051. Beginning Gymnastics (1)

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Department of Recreation and Leisure Studies

p. 411: Revise title and description for RCLS course as follows:

2601. Leisure in Society (3) (GE:SO) Introduction to concept of leisure from historical, socio-cultural, and individual perspectives

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School of Industry and Technology

Department of Industrial Technology

p. 363: Change name for IDIS 3770 from The Electrical Distributor: Purposes and Functions to:

3770. The Industrial Distributor: Purposes and Functions.

p. 340: Add new ITEC course as follows:


https://author.ecu.edu/cs-acad/fsonline/cu/cu3_01.cfm
p. 323: Bank ELEC courses as follows:

2056, 2057. Electronic Power Systems (3,0)
3056, 3057. Industrial Solid-State Control (3,0)
3058, 3059. Electronic Communication Systems (3,0)

4060, 4061. Electronic Control of Robotic and Automated Manipulators (3,0)

p. 206: Where ELEC 2056, 2057 appears in ITEC Minor, substitute ELEC 3150, 3151.

p. 202: In Electronics Degree, 3., Cognates, substitute ITEC 2000 or equivalent for ELEC 4050, 4051.

p. 323: Add new ELEC courses as follows:

3154, 3155. Digital Communication Systems (3,0) (F) To be taken simultaneously. 2 lecture and 2 lab hours per week. P: ELEC 2150, 2151, 3150, 3151. Introduction to local-area and wide- area networks. Provides basic understanding of network concepts and router programming.

3158, 3159. Computer Networking Technology (3,0) (S) To be taken simultaneously. 2 lecture and 2 lab hours per week. P: ELEC 3154, 3155. Advanced study of local-area and wide-area networks. Develops competencies in designing and implementing an enterprise-wide campus network using routers and switches.

3250, 3251. Internetwork Routing Technology (3,0) (F) To be taken simultaneously. 2 lecture and 2 lab hours per week. P: ELEC 3158, 3159; C: ELEC 4150, 4151. Advanced network routing technology in industry. Includes routing protocols and technology, network performance consideration, and traffic control over LAN and WAN.

4150, 4151. Switching Network Technology (3,0) (F) To be taken simultaneously. 2 lecture and 2 lab hours per week. P: ELEC 3158, 3159. C: ELEC 3250, 3251. Concepts and technology used to interconnect multiple LANs. Covers advanced switching technology and applications.

4250, 4251. Enterprise Network Technology. (3,0) (F) To be taken simultaneously. 2 lecture and 2 lab hours per week. P: ELEC 3250, 3251, ELEC 4150, 4151. C: ELEC 4590, 4591. Designs and implementation of enterprise network system in industrial environment. Includes designing and planning processes, technology and trend, network and system analysis, skill assessment and technical training, and corporate policies.

p. 202: Remove ELEC 4052, 4053 Computer Based Industrial Controls from the required Electronics BS degree program; Retain it as an elective with prerequisites changes. (See prerequisite area)

p. 323: ELEC 2054, 2055

Drop prerequisite: ITEC 2000, 2001

Change prerequisite: MATH 1065 to "Any one of MATH 1065, 1066, 1085, 2119"

p. 323: ELEC 2150, 2151

Change prerequisite: MATH 1074 to "Any one of MATH 1074, 1075, 1085, 2119, 2121."

P: 2054/2055 remains the same

RC: ELEC 3150/3151 remains the same

p. 323: ELEC 3150, 3151

Add prerequisite: ELEC 2054

RC: ELEC 2150/2151 remains the same

p. 323: ELEC 4052, 4053

Drop prerequisite: ELEC 3056/3057 & 4050/4051

Add prerequisite: ELEC 2054

p. 324: ELEC 4590, 4591

Drop prerequisite: ELEC 2056/2057; 3056/3057; 4050/4051

Add prerequisite: ELEC 3250, 4150
Add co-requisite: ELEC 4250

p. 324: Delete ELEC courses as follows:

**5502. Independent Study: Electronic Communications (3)**

**5552. Robotics and Computer-Aided Manufacturing (3)**

p. 202: BS in Electronics Cognate change:

Delete ELEC 4050/4051 Microprocessor: Systems and Applications

BS in Electronics

Minimum degree requirement is 126 s.h. credit as follows:

1. General education requirements (See Section 6, Undergraduate Studies, Requirements for Baccalaureate Degree Programs.), including those listed below 42 s.h.

ECON 2113. Principles of Microeconomics (3) (F,S,SS) (GE:SO)

MATH 1065. College Algebra (3) (F,S,SS) (GE:MA) [P: Appropriate score on mathematics placement test] or MATH 1066. Applied Mathematics for Decision Making (3) (F,S,SS) (GE:MA) [P: Appropriate score on mathematics placement test or approval of dept chair]

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

PHYS 1251, 1261. General Physics Laboratory (1,1) (F,S,SS) (GE:SC) [C for 1251: PHYS 1250 or 2350; C for 1261: 1260 or 2260]

PSYC 1000. Introductory Psychology (3) (F,S,SS) (GE:SO)

PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (GE:SO)

SPCH 2510. Public Speaking (3) (F,S,SS) (GE:FA) or SPCH 2520. Business and Professional Communication (3) (F,S,SS) (GE:FA)

2. Core 48 s.h.

DESN 2034, 2035. Engineering Graphics I (3,0) (F,S,SS) [P: Computer-related elective]

ELEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S,SS) [P: MATH 1065; ITEC 2000, 2001]

ELEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S,SS) [P: Any one of MATH 1065, 1066, 1085, 2119]

ELEC 2055, 2056. Electronic Power Systems (3,0) (S) [P: ELEC 2150, 2151]

ELEC 3158, 3159. Computer Network Technology (3,0) (S) [P: ELEC 3154, 3155]

ELEC 2150, 2151. Circuit Analysis (3,0) (F,S) [P: ELEC 2054, 2055; MATH 1074; RC: ELEC 3150, 3151]

ELEC 2150, 2151. Circuit Analysis (3,0) (F,S) [P: ELEC 2054, 2055; Any one of MATH 1074, 1075, 1085, 2119, 2121; RC: ELEC 3150, 3151]

ELEC 3056, 3057. Industrial Solid-State Control (3,0) (F,S) [P: ELEC 2150, 2151]

ELEC 3250, 3251. Internetwork Routing Technology (3,0) (F) [P: ELEC 3158, 3159][C: ELEC 4150,4151]

ELEC 3058, 3059. Electronic Communication Systems (3,0) (F) [P: ELEC 2150, 2151, 3150, 3151]

ELEC 3154, 3155. Digital Communication Systems (3,0) (F) [ELEC 2150, 2151, 3150, 3151]

ELEC 3150, 3151. Digital Systems (3,0) (F,S) [RC: ELEC 2150, 2151]

ELEC 3150, 3151. Digital Systems (3,0) (F,S) [P: ELEC 2054, 2055][RC: ELEC 2150, 2151]

ELEC 4052, 4053. Computer-Based Industrial Control (3,0) (S) [P: ELEC 3056, 3057, 4050, 4051]

ELEC 4150, 4151. Switching Network Technology (3,0) (F) [P: ELEC 3158, 3159] [C: ELEC 3250, 3251]
ELEC 4060, 4061. Electronic Control of Robotic and Automated Manipulators (3,0) (F) [P: ITEC 2090; ELEC 2056, 2057]

ELEC 4250, 4251. Enterprise Network Technology (3,0) (S) [P: ELEC 3250, 3251, 4150, 4151] [C: ELEC 4590, 4591]

ELEC 4590, 4591. Electronic System Design (3,0) (S) [P: ELEC 2056, 2057, 3056, 3057, 4050, 4051]

ELEC 4590, 4591. Electronic System Design (3,0) (S) [P: ELEC 3250, 3251, 4150,4151] [C: ELEC 4250, 4251]

ITEC 2010. Introduction to Industry and Technology (3) (F,S,SS)

ITEC 2020. Materials Technology (3) (F,S,SS)

ITEC 2090. Energy Processing and Transactional Power Systems (3) (F,S,SS)

ITEC 3290. Technical Writing (3) (WI) (F,S,SS) [P: ENGL 1200]

ITEC 3292. Industrial Safety (3) (F,S,SS) [P: Junior standing and completion of 12 s.h. of industrial technology courses]

ITEC 4300. Quality Assurance Concepts (3) (F,S,SS) [P: Eighteen s.h. of technology core courses]

3. Cognates 24 s.h.

ACCT 2401. Financial Accounting (3) (F,S,SS) [P: MATH 1065 or 1066]

ELEC 4050, 4051. Microprocessor Systems and Applications (3,0) (F) [P: ELEC 3150, 3151]

FINA 2244. Legal Environment of Business (3) (F,S,SS)

ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S,SS) or equivalent

MATH 1074. Applied Trigonometry (2) (F,S,SS) [P: MATH 1065]

MATH 2228. Elementary Statistical Methods I (3) (F,S,SS) [P: MATH 1065 or equivalent] or MATH 2283. Statistics for Business (3) (F,S,SS) [P: MATH 1065 or 1066 or equivalent]

Choose 4 s.h. CHEM electives, excluding CHEM 0150

Choose 6 s.h. from:

ACCT 2521. Managerial Accounting (3) (F,S,SS) [P: DSCI 2223]

ITEC 4293. Industrial Supervision (3) (WI) (F,S) [P: Senior standing and completion of 20 s.h. of industrial technology courses]

MANF 3800. Capital Equipment (3) (S) [P: ACCT 2401; ITEC 3292]

MGMT 3202. Fundamentals of Management (3) (F,S,SS) [P: ECON 1000 or 2113]

MKTG 3832. Marketing Management (3) (F,S,SS) [P: ECON 1000 or 2113]

4. Electives to complete requirements for graduation.

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Department of Planning

p. 404: Bank the following PLAN courses:

**4001. Field Methods of Planning (3)**

**4005. Environmental Impact Assessment in Planning (3)**

**4040. Community Facilities Planning and Capital Budgeting (3)**

**4086. Site Design (3)**

**5015, 5016. Transportation Planning and Transportation Planning Studio (2,1)**
5055. Soils and Planning (3)
5095. International Development Planning (3)
5111. Problems in Planning (1)

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School of Nursing

p. 392-393: Renumber NURS courses by adding a lab number for 0 credit as follows:

3020, 3021 (3,0)
3270, 3271 (3,0)
3370, 3371 (3,0)

p. 395: Add new NURS course as follows:

NURS 5900. School Nursing Practice (3) Complexity of school nurse role in coordinated school health programs. Emphasis on case management and interdisciplinary practice in school setting.

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School of Social Work and Criminal Justice

p. 366 Revise JUST course as follows:


p. 367 Unbank JUST course as follows:


p. 366 Revise and renumber JUST 3100 to 3101 and 3102 as follows:

3101. Conflict Management (3) (F) (S) Formerly JUST 3100. P: JUST major. Theoretical and practical bases for accurately assessing and responding to crises unique to criminal justice profession in order to reduce stress, violence, injury, or death among citizens.

3102. Interviewing in Criminal Justice (3) (F) (S) Formerly JUST 3100. P: JUST major. Examines interactions between criminal justice personnel and persons other than offenders, including victims, witnesses, children, and families. Develops interviewing skills.

Remove the prerequisite of JUST 3800 in JUST 4006 and 4200.

Remove JUST 3500 as a prerequisite for any JUST course.

Remove prerequisites from JUST 4500.

Delete the following JUST courses:

JUST 3000. Residential Institutions
JUST 4001. Police Organization and Administration
JUST 4002. Correctional Administration

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CRIMINAL JUSTICE STUDIES

Revise the second paragraph to read as follows:

To apply for admission ... from another institution. Transfer students admitted to the university with a minimum of 32 s.h. of credit must establish an overall 2.5 GPA at the university prior to admission into the criminal justice studies
program and have completed JUST 1000 or equivalent with a minimum grade of C. All transfer students must submit . . . 104-B Ragsdale Building.

BS in Criminal Justice

Criminal justice majors must pass all required criminal justice courses and supportive area criminal justice courses with a minimum grade of C. Minimum degree requirement is 120 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.

   History course

   POLS 1010. National Government (3) (F,S,SS) (GE:SO)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (GE:SO)
   SOCI 2110. Introduction to Sociology (3) (F,S,SS) (GE:SO)

2. Core 30 21 s.h.

   JUST 1000. The Criminal Justice System (3) (F,S,SS)
   JUST 3100. Interviewing and Crisis Management (3) (F,S) [P: JUST 1000, 2000]
   JUST 3500. Principles of Criminal Law (3) (F,S) Must be taken during first semester in program. [P: JUST 1000-2000]
   JUST 3501. Criminal Procedure (3) (WI) (F,S) [P: JUST 3500] or JUST 3502. Correctional Law (3) (WI) (F,S) [P: JUST 3500]
   JUST 3700. Public Safety in a Multicultural Environment (3) (F,S) [P: JUST 3500 Major]
   JUST 3800. Research Methods in Criminal Justice (3) (F,S) [P: JUST 3500 Major]
   JUST 4200. The Juvenile Justice System (3) (WI) (F,S) [P: JUST 3800 Major]
   JUST 4300. Criminal Justice Administration (3) (F,S) [P: JUST 3500]
   JUST 4500. Issues and Problems in Criminal Justice (3) (F,S)

3. Law Enforcement and Corrections Emphasis .Choose 3 s.h. from each area). . . 6 s.h.

   Law Enforcement

   JUST 3006. Security Systems (3) (S or SS) [P: JUST 3500 major]
   JUST 3007. Criminal Investigation (3) (F) [P: JUST 3500 major]
   JUST 3012. Police Operations (3) (S) [P: JUST 3500 major]
   JUST 3501. Criminal Procedures (3) (F) (S) (WI) [P: JUST major]

   Corrections

   JUST 3008. Correctional Systems (3) (F,S) [P: JUST 3500 major]
   JUST 3502. Correctional Law (3) (F) (S) (WI) [P: JUST major]
   JUST 4006. Community Corrections (3) (F or SS) [P: JUST 3500 major] [P: JUST 3800]

4. Cognates 3 s.h.

   ASIP 2112. Introduction to Information Processing Technology (3) (F,S,SS) or DSCI 2223. Introduction to Computers (3) (F,S,SS) or ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S,SS)
5. Supportive area courses **27-30 s.h.**

Choose a minimum of 12 (15) s.h. from:

**JUST 3101, Conflict Management (3) (F) [P: JUST major]**

**JUST 3102, Interviewing in Criminal Justice (3) (S) [P: JUST major]**

JUST 3003. Addiction, Crime, and the Criminal (3) (F) [P: JUST 3500 major]

JUST 4004. Criminal Justice History (3) (S) [P: JUST 3500 major]

JUST 4005. Organized Crime (3) (SS) [[P: JUST 3500 major]

JUST 4300. Criminal Justice Administration (3) (S) [P: JUST major]

JUST 4401, 4402, 4403. Independent Study (1,2,3) (F,S,SS) [P: JUST 3500 major] [P: JUST 3500]

JUST 4600. Special Topics in Criminal Justice (3) (F or S or SS) [P: JUST 3500 major]

JUST 4990. Field Education and Seminar (9) (F,S,SS) [P: Minimum cumulative 2.5 GPA to be eligible for consideration; completion of all required JUST and supportive area courses; selection based upon availability of appropriate placements and criteria specified in Criminal Justice Student Handbook]

JUST 5000. Comparative Criminal Justice (3) (SS) [P: JUST major]

Choose a minimum of 15 s.h. from outside criminal justice above 2999 with approval of adviser.

6. Electives to complete requirements for graduation.