#### CURRICULUM COMMITTEE January 16, 2015 Minutes

- **Present:** Diane Brice, Claudie Biggers, Susan Burks, Tamara Clunis, Kim Davis, Kristin Edford, Dan Ferguson, Lyndy Forrester, Matthew Goodman, Kim Hays, Alan Kee, Jerry Moller, Carol Moore, Jason Norman, Kelly Prater, Richard Pullen, Tamra Rocsko, Mark Rowh and Kathy Wetzel
- Absent: Kristin McDonald-Willey and Delila Paredes

Others Present: Carol Buse, Pete Gonzales, Toni Gray, Dwayne Higgins, Jodi Linseth, Bruce Moseley, Deborah Vess, Collin Witherspoon

#### NURSING ADN

Richard Pullen submitted a request to add the following course to the course inventory:

 RNSG 2030: Professional Nursing Review and Licensure Preparation Review of concepts required for licensure examination and entry into the practice of professional nursing. Includes review of application process of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits and remediation. This course lends itself to either a blocked or integrated approach.

(0 sem hrs; 3 lab)

Learning Outcomes:

- Apply knowledge, skills and understanding of critical concepts required for entry into professional nursing
- Demonstrate individual competency level applicable to nursing content areas
- Exhibit readiness for licensure examination.

And make the following changes to the Associate Degree Nursing program (RNSG.AAS):

 Add RNSG 2030: Professional Nursing Review and Licensure Preparation to the major course requirements

Hays moved, seconded by Burks to approve the addition of RNSG 2030 to the inventory and the ADN major contingent upon verification in the WECM that RNSG 2030 is a SCH course. Brice opposed. The motion carried.

#### LIBERAL ARTS Criminal Justice

Toni Gray submitted a request to make the following changes to the Criminal Justice AS (CRIJ.AS) degree:

• Move CRIJ 1301: Introduction to Criminal Justice from the Major Course Requirements to the Social/Behavioral Sciences requirement

- Add CRIJ 2314: Criminal Investigation to the Major Course Requirements
- Reduce the program total from 62 to 60 semester hours

Davis moved, seconded by Norman to approve the changes to the Criminal Justice AS degree. The motion carried.

Toni Gray submitted a request to deactivate the Forensic Science AS (FORS.AS) degree.

Kee moved, seconded by Hays to approve the deactivation of the Forensic Science AS degree. The motion carried.

Toni Gray submitted a request to make the following changes to the Criminal Justice AAS (CJLE.AAS.LENF) degree:

- Change the program name to Criminal Justice Law Enforcement AAS
- Remove the Homeland Security and Law Enforcement Options
- Delete PSYC 2301: General Psychology and add CRIJ 1301: Introduction to Criminal Justice as the Social/Behavioral Science requirement
- Add the following courses to the Major Course Requirements:
  - o CJLE 1506: Basic Peace Officer I
  - o CJLE 1512: Basic Peace Officer II
  - CJLE 1518: Basic Peace Officer III
  - o CJLE 1524: Basic Peace Officer IV
  - o CJLE 1429: Basic Peace Officer V
- Add the following courses to the Major Course Options Choose 5 courses from the following:
  - CRIJ 1306: Court Systems and Practices
  - CRIJ 1307: Crime in America
  - CRIJ 1310: Fundamentals of Criminal Law
  - o CRIJ 2313: Correctional Systems and Practices
  - o CRIJ 2314: Criminal Investigation
  - CRIJ 2328: Police Systems and Practices
  - HMSY 1337: Introduction to Homeland Security
  - HMSY 1343: Weapons of Mass Destruction
  - o BUSI 2301: Business Law
  - o ITDF 1300: Introduction to Digital Forensics
  - ITDF 2325: Digital Forensics Tools
  - o ITSC 2335: Application Software Problem Solving
- Add a Related Course Requirements section to include:
  - o BCIS 1305: Business Computer Applications
  - ENGL 1302: Composition II Or
  - ENGL 2311: Technical and Business Writing
- Reduce program total from 60-62 to 60 semester hours

## Rowh moved, seconded by Edford to approve the changes to the Criminal Justice Law

## Enforcement AAS degree. The motion carried.

#### <u>STEM</u> Chemistry

Collin Witherspoon submitted a request to add the following courses to the course inventory:

• CHEM 2423: Organic Chemistry I

Prerequisites: CHEM 1312-minimum grade of C;

Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS.

(4 sem hrs; 3 lec, 4 lab)

Learning Outcomes:

- Classify organic compounds by structure, molecular orbitals, hybridization, resonance, tautomerism, polarity, chirality, conformation and functionality.
- o Identify organic molecules using appropriate organic nomenclature.
- Classify the reactions based on the intermediates they form.
- o Describe organic reactions in terms of radical and ionic mechanisms.
- Use spectroscopic data to determine the structure of organic molecules.
- Formulate appropriate reaction conditions for the synthesis of simple organic molecules.
- CHEM 2425: Organic Chemistry II

Prerequisite: CHEM 2423 - minimum grade of C

Advanced principles of organic chemistry will be studied, including the structure, properties and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS.

## (4 sem hrs; 3 lec, 4 lab)

Learning Outcomes:

- Correlate molecular structure with physical and chemical properties of aliphatic and aromatic organic molecules.
- Predict the mechanism and outcome of aliphatic and aromatic substitution and elimination reactions, given the conditions and starting materials.
- Predict the chirality of reaction products based on enantiomeric and diastereomeric relationships.
- Describe reaction mechanisms in terms of energetics, reaction kinetics, and thermodynamics.

- Use spectroscopic techniques to characterize organic molecules and subgroups.
- ENGR 2304: Programming for Engineers

Prerequisite: MATH 2413 – minimum grade of C or department chair consent Programming principles and techniques for matrix and array operations, equation solving, and numeric simulations applied to engineering problems and visualization of engineering information; platforms include spreadsheets, symbolic algebra packages, engineering analysis software and laboratory control software.

Hours (3 sem hrs; 3 lec)

Learning Outcomes:

- o Use matrix and array operations for equation solving.
- Identify the strengths and weaknesses of the conventional programming languages.
- Use spreadsheets and their built-in features to solve a variety of engineering problems, applying both quantitative and qualitative methodologies.
- Describe methods for the design of programs that control equipment or analyze data.
- Write computer programs to solve engineering problems and perform engineering simulations using common software tools.
- Graphically present engineering data, results and conclusions.

Delete the following courses from the course inventory:

- CHEM 2323: Organic Chemistry I
- CHEM 2325: Organic Chemistry II

Rowh moved, seconded by Pullen to approve the chemistry and engineering course changes in the course inventory. The motion carried.

Collin Witherspoon submitted a request to make the following changes to the Chemistry AS (CHEM.AS) degree:

- Delete the following courses:
  - o CHEM 2323: Organic Chemistry I
  - CHEM 2223: Organic Chemistry I Laboratory
  - CHEM 2325: Organic Chemistry II
  - CHEM 2225: Organic Chemistry II Laboratory
- Add the following courses:
  - o CHEM 2423: Organic Chemistry I
  - o CHEM 2425: Organic Chemistry II
- Reduce the total from 63 to 60 semester hours

## Burks moved, seconded by Biggers to approve the changes to the Chemistry AS degree. The motion carried.

Collin Witherspoon submitted a request to make the following changes to the Engineering AS (ENGR.AS.GEN) degree:

- Replace COSC 1317: Computer Programming for Engineers and Scientists with ENGR 2304: Programming for Engineers
- Delete the Recommended Courses section
- Add the following program options:
  - Chemical Engineering 6 Hours Choose 6 hours from:
    - CHEM 1312: Principles of Chemistry II
    - CHEM 1112: Principles of Chemistry II lab
    - CHEM 2423: Organic Chemistry I
    - CHEM 2425: Organic Chemistry II
  - Civil/Mechanical/Nuclear Engineering 6 Hours Choose 6 hours from the following:
    - ENGR 1304: Engineering Graphics
    - ENGR 2302: Engineering Mechanics II (Dynamics)
    - ENGR 2304: Programming for Engineers
    - ENGR 2305: Electrical Circuits I
    - ENGR 2332: Mechanics of Materials
  - Electrical Engineering 6 Hours

Choose 6 hours from the following:

- ENGR 1304: Engineering Graphics
- ENGR 2304: Programming for Engineers
- ENGR 2305: Electrical Circuits I
- Petroleum Engineering 6 Hours

Choose 6 hours from the following:

- CHEM 1312: Principles of Chemistry II
- CHEM 1112: Principles of Chemistry II lab
- CHEM 2423: Organic Chemistry I
- CHEM 2425: Organic Chemistry II
- GEOL 1103: Physical Geology Laboratory
- GEOL 1104: Historical Geology Laboratory
- GEOL 1303: Physical Geology
- GEOL 1304: Historical Geology

# Hays moved, seconded by Goodman to approve the changes to the Engineering AS degree. The motion carried.

## **Computer Information Systems**

Carol Buse submitted a request to add the following courses to the course inventory:

- COSC 1330: Computer Programming
  - Introduction to computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation and documentation. Includes coverage of language syntax, data and file structures, input/output devices and disks/files.

(3 sem hrs; 2 lec, 4 lab)

Learning Outcomes:

- Identify and describe internet architecture, structure, functions, components, and models
- Describe the use of OSI and TCP layered models; identify and describe the nature and roles of protocols and services at the application, network, data link, and physical layers
- Describe principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations
- Build simple LAN topologies by applying basic principles of cabling, device configuration, and IP subnetting.
- COSC 2330: Advanced Structured Languages

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

(3 sem hrs; 2 lec, 4 lab)

Learning Outcomes:

- Demonstrate an understanding of modular programming design in the form of methods including method overloading
- Design several abstract data types and class types in such a way that each type has a set of operations and a set of values (what) that can be used independently of knowledge of implementation (how)
- Demonstrate an understanding of accessors and mutators, constructors and encapsulation
- o Implement various designs of an abstract data type or class type
- Develop GUI applications
- o Demonstrate an understanding of event handling
- Demonstrate an understanding of array processing
- Demonstrate an understanding of class relationships and how those relationships are implemented through Aggregation
- Demonstrate an understanding of inheritance, polymorphism, method overloading and method overriding
- o Demonstrate a basic understanding of Exception handling
- o Demonstrate fluency in the C# programming language
- ITSE 2317: Java Programming Prerequisite: COSC 1330 or instructor consent
  - Introduction to object-oriented Java programming including the fundamental syntax and semantics of Java for applications and web applets.
  - (3 sem hrs; 2 lec, 4 lab)

Learning Outcomes:

- Design and write documented Java applications and applets.
- ITSC 2337: UNIX Operating System II
  - Prerequisite: ITSC 1307

Continued study of the UNIX operating system commands. Includes topics such as CGI and scripting languages.

(3 sem hrs; 2 lec, 4 lab)

Learning Outcomes:

- Solve intermediate problems using UNIX commands such as SED, AWK and GREP from the command line and in the basic scripts
- o Develop CGI script using a scripting language
- GAME 1394: Special Topics in Animation, Interactive Technology, Video Graphics and Special Effects

Prerequisite: COSC 1330

Topics address recently identified current events, skills, knowledge and /or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

(3 sem hrs; 2 lec, 4 lab)

Learning Outcomes:

 Learning outcomes/objectives are determined by local occupational need and business and industry trends.

Update the title, description, prerequisite and/or contact hours of the following courses:

 BCIS 2390: Systems Analysis I Systems Analysis and Design Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation and network application interfaces.

(3 sem hours; 2 lec, 4 lab)

- ITSE 1311: Beginning Web Page Programming Skill development in web programming including mark-up and scripting languages. (3 sem hrs; 2 lec, 4 lab)
- ITSE 2359: Advanced Computer Programming Prerequisite: COSC 1415 COSC 1330 or instructor consent (3 sem hrs; 2 lec, 4 lab)
- INEW 2334: Advanced Web Programming Prerequisites: ITSE 1311 and COSC 1415 COSC 1330 or ITSE 2302 Web programming using industry-standard languages and data stores. (3 sem hrs; 2 lec 4 lab)
- ITSE 1391: Special topics in Computer Programming Prerequisites: COSC 2330 or COSC 1336 (3 sem hrs; 2 lec, 4 lab)

Delete the following courses:

- BCIS 1401: Microcomputer Applications
- BCIS 2431: Visual Basic Programming

- COSC 1415: Programming Techniques and Logic Design I
- COSC 1430: Current Issues
- COSC 2430: Programming Techniques and Logic Design II
- ITSC 1191: Special Topics in Computer and Information Sciences
- ITSE 1418: Introduction to COBOL Programming
- ITSE 2417: Java Programming
- ITSC 2437: UNIX Operating System II

Burks moved, seconded by Biggers to approve the changes to the Computer Information System courses. The motion carried.

Carol Buse submitted a request to make the following changes to the Business Administration Computer Information Systems (BUSI.AS.CIS) degree:

- Replace COSC 1415: Programming Techniques and Logic Design I with COSC 1330: Computer Programming
- Replace COSC 2430: Programming Techniques and Logic Design II with COSC 2330: Advanced Structured Languages
- Delete MATH 1325: Calculus for Business & Social Sciences from the Major Course Requirements
- Reduce the program total to 60 semester hours

#### Norman moved, seconded by Davis to approve the changes to the Business Administration/Computer Information System degree. The motion carried.

Carol Buse submitted a request to make the following changes to the Computer Information Systems (COSC.AAS) degree:

- Make the following changes to the Major Course Requirements:
  - Replace COSC 1415: Programming Techniques and Logic Design I with COSC 1330: Computer Programming
  - Replace COSC 2430: Programming Techniques and Logic Design II with COSC 2330: Advanced Structured Languages
- Reduce the Major Elective Requirement to 3 semester hours
- Make the following changes to the Computer Programming Option:
  - Replace COSC 1436: Programming Fundamentals I with COSC 1336: Programming Fundamentals I
  - Replace COSC 1437: Programming Fundamentals II with COSC 1337: Programming Fundamentals II
  - Replace COSC 2436: Programming Fundamentals III with COSC 2336: Programming Fundamentals III
  - o Add ITSE 1391: Special Topics in Computer Programming
- Make the following changes to the Software, Security, Networking (SSN) option:
  - Replace ITCC 1401: Cisco I Network Fundamentals with ITCC 1301: Cisco I Network Fundamentals

- Replace ITCC 1404: Cisco II Routing Protocols and Concepts with ITC 1304: Cisco II – Routing Protocols and Concepts
- Add a Business Option to include the following courses:
  - o ACCT 2301: Accounting Principles I
  - ACCT 2302: Accounting Principles II
  - o BUSI 2301: Business Law
  - ECON 2301: Principles of Macroeconomics
- Reduce the program total to 60 semester hours

<u>Goodman moved, seconded by Burks to approve the changes to the Computer Information</u> <u>Systems degree. The motion carried</u>.

Carol Buse submitted a request to add the following certificate in the Computer Information Systems program:

 Game Design Certificate (COSC.CERT.GAME) This certificate is a beginning certificate in game design. Students will be exposed to 3D animation, computer programming and Game Design. Students will develop a game prototype.

Major Course Requirements (21 semester hours)

- ARTV 1303: Basic Animation
- o ARTV 1345: 3D Modeling and Rendering I
- ARTV 1341: 3D Animation I
- GAME 1306: Design and Creation of Games
- GAME 1394: Special Topics in Animation, Interactive Technology, Video Graphics and Special Effects
- o COSC 1330: Computer Programming
- COSC 2330: Advanced Structured Languages

Hays moved, seconded by Goodman to approve the addition of the Game Design Certificate. The motion carried.

Bruce Moseley submitted a request to make the following changes to the Legal Studies AAS (LGLA.AAS) degree:

- Update the following program description:
  A grade of C or higher is required for satisfactory completion of all Major Course Requirements and Major Course Options courses.
- Delete the Law & Public Safety Core Requirement
- Make the following changes to the Major Course Requirements:
  - Delete LGLA 1353: Wills, Trusts and Probate Administration
  - o Delete LGLA 1355: Family Law
  - Add POFT 2301: Intermediate Keyboarding
  - Add BCIS 1305: Business Computer Applications
- Make the following changes to the Major Course Options:

- Delete POFL 1305: Legal Terminology
- o LGLA 1353: Wills, Trusts and Probate Administration
- o LGLA 1355: Family Law
- Make the following changes to the Related Course Options:
  - Increase the hours from 9 to 12 semester hours
  - Delete POFT 2301: Intermediate Keyboarding
  - Add ITDF 1300: Introduction to Digital Forensics
  - Add ITDF 2325: Digital Forensics Tools
  - Add CRIJ 2314: Criminal Investigation
  - Add HRPO 1311: Human Relations
  - Add POFL 1305: Legal Terminology

<u>Goodman moved</u>, seconded by Norman to approve the changes to the Legal Studies AAS degree. The motion carried.

Jody Lindseth submitted a request to make the following changes to Management – Business Management AAS (BMGT.AAS) degree:

- Make the following changes to the Major Course Requirements:
  - Delete BMGT 1171: Customer Service
  - Delete BMGT 1373: Professional Image Development
  - Move BMGT 1382: Cooperative Education as an optional in the program options
  - Reduce to 15 semester hours
- Increase the Related Course Requirements to 21 semester hours
- Make the following changes to the Business Management Option:
  - o Delete BCIS 1401: Microcomputer Applications
  - o Add ITSC 2335: Application Software Problem Solving
  - Increase the optional courses to 4 including:
    - BMGT 1373: Professional Image Development
    - BMGT 1382: Cooperative Education
    - BMGT 1383: Cooperative Education
    - BUSG 1315: Small Business Operations
    - BUSG 2309: Small Business Management Entrepreneurship
- Make the following changes to the Marketing Management Option:
  - Increase the optional courses to 3 including:
    - BMGT 1373: Professional Image Development
    - BMGT 1382: Cooperative Education
    - BUSG 1315: Small Business Operations
    - BUSG 2309: Small Business Management Entrepreneurship
    - MRKG 2312: e-Commerce Marketing
- Make the following changes to the Food Service Management Option:
  - Add optional courses to include:
    - BMGT 1373: Professional Image Development
    - BMGT 1382: Cooperative Education
    - BUSG 1315: Small Business Operations

- BUSG 2309: Small Business Management Entrepreneurship
- TRVM 1300: Introduction to Travel and Tourism
- Make the following changes to the Hospitality Management Option:
  - Increase the optional courses to 2 including:
    - BMGT 1373: Professional Image Development
    - BMGT 1382: Cooperative Education
    - BUSG 1315: Small Business Operations
    - BUSG 2309: Small Business Management Entrepreneurship
- Decrease the program total to 60 semester hours

A request to make the following changes to the Call Center Management Certificate (BMGT.CERT.CALL):

- Increase the optional to courses to 5 including:
  - o BMGT 1307: High Performance Work Teams
  - o BMGT 1373: Professional Image Development
  - BMGT 1382: Cooperative Education
  - BMGT 2303: Problem Solving and Decision Making
  - o BMGT 2309: Leadership
  - o HRPO 2301: Human Resources Management
- Increase the total number to 27 semester hours

A request to make the following changes to the Entrepreneurship Certificate (BMGT.CERT.SMB):

- Delete BMGT 1171: Customer Service
- Reduce the total to 24 semester hours

A request to make the following changes to the Business Management Certificate (BMGT.CERT):

- Delete BMGT 1171: Customer Service from the Major Course Requirements
- Delete BMGT 1383: Cooperative Education from the optional courses
- Increase the optional courses to 2 including:
  - BUSG 1315: Small Business Operations
  - o BUSG 2309: Small Business Management Entrepreneurship
- Reduce the total to 30 semester hours

A request to make the following changes to the Business Management Marketable Skills Certificate (BMGT.MKT):

- Delete BMGT 1171: Customer Service
- Reduce the total to 9 semester hours

A request to make the following changes to the Food Service Manager Certificate (BMGT.CERT.FSM):

- Delete the following courses:
  - BMGT 1373: Professional Image Development
  - o TRVM 1101: Customer Sales and Service
- Reduce the total to 30 semester hours

A request to make the following changes to the Food Service Supervisor Certificate (BMGT.CERT.FSS):

- Delete the following courses:
  - HAMG 1321: Introduction to Hospitality
  - TRVM 1101: Customer Sales and Service
- Reduce the total to 21 semester hours

A request to make the following changes to the Hospitality Management Certificate (BMGT.CERT.HOSP):

- Delete the following courses:
  - BMGT 1171: Customer Service
  - BMGT 1373: Professional Image Development
- Reduce the total to 24 semester hours

Hays moved, seconded by Davis to approve the changes to the Business Management AAS and certificates. The motion carried.