UNIVERSITY CURRICULUM COMMITTEE
2014-15 Meeting #14, March 2, 2015

Present: Heather Chermak, Don Crowley, Janine Darragh, Dan Eveleth (Chair), Rachel Fujita, Isaiah Gyan, Tim Johnson, Joe Law, Rick Stoddart, Todd Thorsteinson, Kerri Vierling.
Absent: Pilar Alfaro, Rodney Frey, Pat Hart, Tim Prather, Jeanne Stevenson, Sarah Vetmsny.
Others Present: Dwaine Hubbard, Charles Tibbals, and two unidentified guests.

Call to order: A quorum being present, the chair called the meeting to order at 3:34 p.m. in the SUB Cataldo room. The minutes of the February 9, 2015 meeting were approved.

Other Business:

- The committee reviewed the flowchart developed by the Office of the Registrar to layout the major approval paths for curricular proposals. Discussion of the FFF process past and future was discussed. The consensus is that it is better to move forward and to not dwell on what has already happened regarding FFF. There was some discussion about future FFF style initiatives and how they would be reviewed by the committees.

Old Business:

New Business:

UCC-15-076a & b. College of Engineering
Biological Engineering: It was motioned and seconded to approve the proposed changes to Biological Engineering. Several lines of language were retained at the end of the major requirements for Biological Engineering. Hearing no questions the motion to approve the proposed changes passed unanimously. The request for drop the options of the major will be forwarded to Faculty Senate for review.

1. Change the subject prefix of the following:

   Effective Term = Summer 2016
   
   BAE – Biological and Agricultural Engineering to BE – Biological Engineering

2. Change the curricular requirements of Biological Engineering (B.S.):

   Required course work includes the university requirements (see regulation J-3) and:

   BAE 142 Engineering for Living Systems (2 cr)
   BAE 242 Engineering Analysis and Design (2 cr)
   BAE 441 Instrumentation and Measurements (3 cr)
   BAE 461 Bioprocess Engineering (3 cr)
   BAE 462 Electric Power and Controls (3 cr)
   BAE 478 Engineering Design I (3 cr)
   BAE 479 Engineering Design II (3 cr)
   BAE 491 Senior Seminar (1 cr)
   Biol 115 Cells and the Evolution of Life (4 cr)
   Biol 250, Biol 255 General Microbiology and Lab (5 cr)
   Chem 111 Principles of Chemistry I (4 cr)
   Chem 112 Principles of Chemistry II (5 cr)
   Chem 277 Organic Chemistry I (3 cr)
   Chem 278 Organic Chemistry I Lab (1 cr)
   Engr 105 Engineering Graphics (2 cr)
   Engr 210 Engineering Statics (3 cr)
   Engr 240 Introduction to Electrical Circuits (3 cr)
   Engr 320 Engineering Thermodynamics and Heat Transfer (3 cr)
   Engr 335 Engineering Fluid Mechanics (3 cr)
   Engr 350 Engineering Mechanics of Material (3 cr)
   Engr 360 Engineering Economy (2 cr)
   Math 170 Analytic Geometry and Calculus I (4 cr)
   Math 175 Analytic Geometry and Calculus II (4 cr)
   Math 275 Analytic Geometry and Calculus III (3 cr)
   Math 310 Ordinary Differential Equations (3 cr)
Phys 211, Phys 211L 
Phys 212, Engineering Physics I and Lab (4 cr)
211L
Stat 301, Probability and Statistics (3 cr)

Engineering Electives (9 cr) (Any 300 or 400 level engineering course may be used to fulfill this requirement)
Technical Electives (9 cr) (Any 300 or 400 level engineering or science course may be used to fulfill this requirement)

Courses to total 128 credits for this degree

And one of the following options:
A. Agricultural Engineering Option

BAE 355 Fundamentals of Hydrologic Engineering (3 cr)
BAE 459 Irrigation System Design (3 cr)
BAE 461 Bioprocess Engineering (3 cr)
BAE 462 Electric Power and Controls (3 cr)
CE 211 Engineering Surveying (3 cr)
CE 322 Hydraulics (3 cr)
CE 342 Theory of Structures (3 cr)
Engr 220 Engineering Dynamics (3 cr)
Soil 205 The Soil Ecosystem (3 cr)

Technical Electives (9 cr)

Courses to total 128 credits for this degree

B. Biological Systems Engineering Option

BAE 461 Bioprocess Engineering (3 cr)
BAE 462 Electric Power and Controls (3 cr)
Biol 250, Biol 255 General Microbiology and Lab (5 cr)
Biol 380 Biochemistry I (4 cr)
Chem 277 Organic Chemistry I (3 cr)
Chem 278 Organic Chemistry I: Lab (1 cr)

Biological Science Electives (3 cr)

Technical Electives (15 cr)

Courses to total 128 credits for this degree

C. Environmental Engineering Option

BAE 355 Fundamentals of Hydrologic Engineering (3 cr)
BAE 461 Bioprocess Engineering (3 cr)
BAE 462 Electric Power and Controls (3 cr)
Biol 250, Biol 255 General Microbiology and Lab (5 cr)
Biol 380 Biochemistry I (4 cr)
Chem 277 Organic Chemistry I (3 cr)
Chem 278 Organic Chemistry I: Lab (1 cr)
CE 330 Fundamentals of Environmental Engineering (3 cr)
Soil 205 The Soil Ecosystem (3 cr)

Technical Electives (9 cr)

Courses to total 128 credits for this degree

D. Bioenergy Engineering Option

BAE Bioprocess Engineering (3 cr)
461
BAE  Electric Power and Controls (3 cr)
462
BAE  Fundamentals of Bioenergy and
485  Bioproducts (3 cr)
BAE  Biofuels (3 cr)
492
BAE  Thermochemical Technologies for Biomass
494  Conversion (3 cr)
Biol  General Microbiology and Lab (5 cr)
250
Biol 255
Biol 380  Biochemistry I (4 cr)
Chem  Organic Chemistry I (3 cr)
277
Chem  Organic Chemistry I: Lab (1 cr)
278
Science Elective (3 cr)
Technical Electives (6 cr)
Courses to total 128 credits for this degree
E. Eco-Hydrological Engineering Option
BAE 355  Fundamentals of Hydrologic Engineering (3 cr)
BAE 451  Engineering Hydrology (3 cr)
BAE 452  Environmental Water Quality (3 cr)
BAE 458  Open Channel Hydraulics (3 cr)
CE 211  Engineering Surveying (3 cr)
CE 322  Hydraulics (3 cr)
Engr  Engineering Dynamics (3 cr)
220
Soil 205  The Soil Ecosystem (3 cr)
Technical Electives (11 cr)
One of the following (3 cr):
CS 112  Introduction to Problem Solving and
Programming (3 cr)
CS 130  Programming with Visual Basic (3 cr)
Courses to total 128 credits for this degree
A grade of C or better is required in each of the following courses before registration is permitted in upper-division engineering
courses: BAE 242, Chem 111, Engr 210, Math 275, and Phys 211.
To graduate in this program, a grade of C or better is required in each of the following courses: BAE 242, Chem 111, Engr 210, Math
275, and Phys 211.
Students are required to submit a course plan and a statement of how the humanistic and social course requirements complement
the technical content of the curriculum and are consistent with the program and institution objectives.

UCC-15-077  College of Business and Economics
Accounting: It was motioned and seconded to approve the proposed changes to Accounting. Hearing no questions
the motion to approve the proposed changes passed unanimously.

1. Add the following course:

Acct 550  Fraud Examination (3 cr)
See Acct J440/J550.

2. Change the following course:

Acct J440/J550  Fraud Examination (3 cr)
Fraud prevention, detection, investigation, and resolution.  Additional class meetings, projects, and/or assignments required for
graduate credit.  May include evening exams.
Prereq: Acct 201

Business: It was motioned and seconded to approve the proposed changes to Business. Committee member
Stoddart asked why the communication courses were bring removed from the marketing options while not being
replaced by anything else. A bottlenecking of students trying to get through the communication courses was cited as
the reason that requirement was being dropped. Committee member Thorsteinson noted that his department does not have the resources to offer any additional sections of the communication courses. Committee member Johnson noted that Stat 446 would likely not be taught again. Committee chair Eveleth indicated he would alert the Marketing faculty of this. Hearing no further questions the motion to approve the proposed changes passed unanimously.

1. Add the following course:

**Bus 483** Topics in Financial Analysis (3 cr)
This course examines various topics relevant to the CFA Institute’s Common Body of Knowledge. Topics will vary based on current issues in the financial analysis industry.

**Prereq:** Bus 302

2. Change the following courses:

**Bus 390 (s) Integrated Topics in Business (3 cr, max 6)**
Each section of the course will offer an in-depth study of an integrating topic spanning the business functions. International and ethical issues related to the topic will be explored. May be repeated once with a different topic for credit. See the current course schedule for specific section titles.

**Prereq:** BLaw 265 and Bus 301 and Bus 321 and Bus 350 and Bus 370 and Econ 201 or Econ 272 and Engl 207 and Engl 208 and Engl 313 and Engl 317 or Phil 301

**EMBA 522** Innovation and New Product Development Marketing Management and Innovation (3 cr)
Explores the framework management must create in order to promote innovation, including aspects of strategy, process, resources, organization and learning, and the gathering of expertise from every corner of the organization and beyond.

Proposed Short Course Title: Marketing Mgt. and Innovation

**EMBA 533** Launching New Products and Services Lean Startup & Product Launch (2 cr)
Provides insight into the key tools and steps needed to build a successful startup. The key idea in this course is learning how to rapidly develop and test ideas by gathering customer and marketplace feedback. Investigates the process sequence for new product development from idea generation through to commercialization and how it fits into overall business strategy. Includes pro-forma analysis of a new product launch, financing and business investment analysis.

**Prereq:** EMBA 522

3. Change the curricular requirements of Finance (B.S.Bus.):

Required course work includes the university requirements (see regulation J-3), the college requirements, and the following:

**Acct 315** Corporate Accounting and Reporting I (3 cr)
**Bus 302** Intermediate Financial Management (3 cr)
**Bus 407** Financial Institutions (3 cr)
**Upper-Division economics courses (3 cr)**

**One of the following (3 cr):**
**Bus 407** Financial Institutions (3 cr)
**Bus 483** Topics in Financial Analysis (3 cr)

**Tier 1 Finance electives, select one of the following (3 cr)**:
**Bus 409** Problems in Financial Management (3 cr)
**Bus 469** Risk and Insurance (3 cr)

**Tier 2 Finance electives, select two of the following (6 cr):**
**Bus 408** Security Analysis (3 cr)
**Bus 463** Portfolio Management (3 cr)
**Bus 464** Derivatives and Risk Management (3 cr)
**Bus 465** Introduction to Market Trading (3 cr)

**Supporting electives, select two of the following (6 cr):**
**Acct 385** Cost and Management Accounting (3 cr)
**Acct 414** Corporate Accounting and Reporting II (3 cr)
**Acct 415** Advanced Financial Accounting and Reporting (3 cr)
**Acct 483** Fundamentals of Federal Taxation (3 cr)
**Bus 378** Project Management (3 cr)
**Bus 381** International Finance (3 cr)
**Bus 414** Entrepreneurship (3 cr)
**Bus 415** New Venture Creation (3 cr)
**Bus 421** Marketing Research and Analysis (3 cr)
**Bus 427** Services Marketing (3 cr)
Bus 439  Systems and Simulation (3 cr)
Bus 456  Quality Management (3 cr)
Buys 495  Product Development and Brand Management (3 cr)
Econ 343  Money and Banking (3 cr)
**Econ 351**  Intermediate Macroeconomic Analysis (3 cr)
Econ 352  Intermediate Microeconomic Analysis (3 cr)
Econ 407  Public Finance (3 cr)
Econ 453  Econometrics (3 cr)
Stat 431  Statistical Analysis (3 cr)

Two of the following may be used if not used to satisfy the above Tier 2 Finance elective:
Bus 408  Security Analysis (3 cr)
Bus 463  Portfolio Management (3 cr)
Bus 464  Derivatives and Risk Management (3 cr)
Bus 465  Introduction to Market Trading (3 cr)

Courses to total 120 credits for this degree

*Note: Students may elect to take Bus 362 or Bus 364 to satisfy the requirements of the Finance major.

4. Change the curricular requirements of Marketing (B.S.Bus.):

Required course work includes the university requirements (see regulation J-3), the college requirements, and:

**Bus 324**  Consumer Behavior (3 cr)
**Bus 421**  Marketing Research and Analysis (3 cr)
**Bus 428**  Marketing Management (3 cr)

And one of the following emphases/options:

**A. General Marketing Emphasis**

One of the following communication courses (3 cr):
Comm 233  Interpersonal Communication (3 cr)
Comm 336  Organizational Communication (3 cr)
Comm 332  Communication and the Small Group (3 cr)
Comm 410  Conflict Management (3 cr)

One upper division (300-400 level) CBE, statistics, or mathematics courses, (excluding Bus 301, Bus 311, Bus 321, Bus 350, Bus 370.) (3 cr)

Tier 1 Marketing Electives:

One of the following (3 cr):
**Bus 427**  Services Marketing (3 cr)
**Bus 495**  Product Development and Brand Management (3 cr)

One of the following (3 cr):
AgEc 333  Introduction to Sales (3 cr)
**Bus 420**  Promotional Strategy (3 cr)
**Bus 422**  Personal Selling and Sales Force Management (3 cr)

One of the following (3 cr):
**Bus 425**  Retail Distribution Management (3 cr)
**Bus 426**  Marketing Channels Management (3 cr)

One of the following (3 cr):
**Bus 424**  Pricing Strategy and Tactics (3 cr)
**Econ 352**  Intermediate Microeconomic Analysis (3 cr)*

Courses to total 120 credits for this degree

*Note: Econ 352 cannot be used to also satisfy the upper-division economics requirement.

**B. Entrepreneurship Emphasis**

One of the following communication courses (3 cr):
Comm 233  Interpersonal Communication (3 cr)
Comm 336  Organizational Communication (3 cr)
Comm 332  Communication and the Small Group (3 cr)
Comm 410  Conflict Management (3 cr)

One upper division (300-400 level) CBE, statistics, or mathematics courses, (excluding Bus 301, Bus 311, Bus 321, Bus 350, Bus 370.) (3 cr)

Acct 482 or Acct 582  Enterprise Accounting (3 cr)
**Bus 414**  Entrepreneurship (3 cr)
**Bus 415**  New Venture Creation (3 cr)

Tier 1 Marketing Electives: Three credits of the following courses (3 cr):
**Bus 420**  Promotional Strategy (3 cr)
Bus 422  Personal Selling and Sales Force Management (3 cr)
Bus 424  Pricing Strategy and Tactics (3 cr)
Bus 425  Retail Distribution Management (3 cr)
Bus 426  Marketing Channels Management (3 cr)
Bus 427  Services Marketing (3 cr)
Bus 429  Vandal Solutions (1-6 cr, max 6)
Bus 482  International Marketing (3 cr)
Bus 495  Product Development and Brand Management (3 cr)
Entrepreneurship Practicum/Internship/Vandal Solutions (3 cr)

Courses to total 120 credits for this degree

C. PGA Golf Management Option

Bus 103  Introduction to PGA Golf Management (2 cr)
Bus 150  PGA Golf Management I (2 cr)
Bus 251  PGA Golf Management II (2 cr)
Bus 298  Internship (2 cr)
Bus 385  PGA Golf Management III (2 cr)
Bus 386  Food & Beverage Hospitality with Lab (4 cr)
Bus 398  Internship (6 cr)
Rec 105  Teaching Golf I (2 cr)
Rec 205  Teaching Golf II (2 cr)
Rec 305  Teaching Golf III (2 cr)

One of the following communication courses (3 cr):
Comm 233  Interpersonal Communication (3 cr)
Comm 235  Organizational Communication (3 cr)
Comm 332  Communication and the Small Group (3 cr)
Comm 335  Intercultural Communication (3 cr)
Comm 410  Conflict Management (3 cr)

Tier 1 Marketing Electives:
One of the following courses (3 cr):
Bus 427  Services Marketing (3 cr)
Bus 495  Product Development and Brand Management (3 cr)
One of the following courses (3 cr):
AgEc 333  Introduction to Sales (3 cr)
Bus 420  Promotional Strategy (3 cr)
Bus 422  Personal Selling and Sales Force Management (3 cr)
One of the following courses (3 cr):
Bus 425  Retail Distribution Management (3 cr)
Bus 426  Marketing Channels Management (3 cr)
One of the following courses (3 cr):
Bus 424  Pricing Strategy and Tactics (3 cr)
Econ 352  Intermediate Microeconomic Analysis (3 cr)*

Students must pass the PGA Player Ability Test

Courses to total 128 credits for this degree

*Note: Econ 352 cannot be used to also satisfy the upper-division economics requirement.

**Students must have a 12.0 handicap or better to enter this program. Students must also be a U.S. citizen to be eligible for PGA membership.

5. Change the curricular requirements of Operations Management (B.S.Bus.):

Required course work includes the university requirements (see regulation J-3), the college requirements, and:

Bus 378  Project Management (3 cr)
Bus 439  Systems and Simulation (4 cr)
Bus 456  Quality Management (3 cr)
Bus 470  Supply Chain Management (3 cr)
Bus 472  Operations Planning and Scheduling (3 cr)

Three or more courses totaling nine credits selected from the following (9 cr):
EnvS 428  Pollution Prevention (3 cr)
ME 410  Principles of Lean Manufacturing (3 cr)
Stat 431  Statistical Analysis (3 cr)
Stat 446  Six Sigma Innovation (3 cr)

Any upper-division (300-400-level) College of Business and Economics courses (excluding Bus 311 and courses taken to complete the CBE Common Requirements)

Any one business, culture, economics or language class that includes a significant international experience component (3 cr)

Courses to total 120 credits for this degree
6. Change the curricular requirements of Business (Minor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acct 201</td>
<td>Introduction to Financial Accounting</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 311</td>
<td>Introduction to Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 321</td>
<td>Marketing</td>
<td>3 cr</td>
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</tbody>
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One of the following (3-4 cr):

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ 201</td>
<td>Principles of Macroeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>Econ 202</td>
<td>Principles of Microeconomics</td>
<td>3 cr</td>
</tr>
<tr>
<td>Econ 272</td>
<td>Foundations of Econ Analysis</td>
<td>4 cr</td>
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One of the following (3-9 cr):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 301</td>
<td>Financial Resources Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 311</td>
<td>Introduction to Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 321</td>
<td>Marketing</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 350</td>
<td>Managing Information</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 378</td>
<td>Project Management</td>
<td>3 cr</td>
</tr>
<tr>
<td>Bus 414</td>
<td>Entrepreneurship</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

Take either two additional 300- or 400-level 3 credit BUS prefix courses OR take Bus 190 and one additional 300- or 400-level 3 credit BUS prefix course (6 cr)

Courses to total 21 credits for this minor

The next UCC meeting will be in the determined at a later time. This meeting was adjourned at 4:30pm.

Charles Tibbals, UCC Secretary