Report of the New Programs and Curricula Committee
April 28, 2009

The New Programs and Curricula Committee met on April 14 from 1:30-5:45 p.m. and also on April 23 from 1-5:45 p.m. in Room 128 Merrick Hall. Committee members in attendance at the April 23rd meeting included Ms. Cassandra Plater, Ms. Shearon Brown, Dr. Thelma King, Ms. Angela Lemons, and Dr. Dorothy Leflore. Members present at the April 23rd were Ms. Shearon Brown, Dr. Thelma King, Ms. Angela Lemons, and Dr. Dorothy Leflore.

The committee reviewed, discussed and approved curricula changes submitted by the departments of Business Education; Biology; Marketing, Transportation & Supply Chain; Economics and Finance; Human Development and Services; Physics; Agribusiness, Applied Economics and Agriscience Education; Curriculum and Instruction; Natural Resources and Environmental Design; Political Science and Criminal Justice; Graphic Communications Systems and Technological Studies; Construction Management and Occupational Safety and Health; Electrical and Computer Engineering; Civil, Architectural, Agricultural, and Environmental Engineering; Nursing; Energy and Environmental Studies; Manufacturing Systems; Family and Consumer Sciences; and Mathematics. A summary of the curricula changes is presented below.

Please note that, for each entry, the original course number, title, and credits are presented on the first line. Relevant changes follow this information for each course.

Department of Business Education
Presented by Dr. Beryl McEwen

MAT PROGRAM CHANGE
Maters of Teaching (MAT) – Addition of non-thesis option to Phase II of the program.

Department of Biology
Presented by Dr. Coomans

NEW COURSES
1. BIOL 615 Principles of Virology 3(3-0)
2. BIOL 635 Methods of Secondary Science Teaching and Internship 6(1-10)

COURSE CHANGE
1. BIOL 642 Special Problems in Biology 3(2-2)
   Course Credit Hours Changed to 3(3-0)

Department of Marketing, Transportation and Supply Chain
Presented by Dr. Edna Ragins

MAJOR NAME CHANGE
Change the major named “Transportation-0102” to “Transportation Supply Chain Management”. Name change requested because of increased emphasis on supply chain management and it provides more brand name recognition for the major.

COURSE CHANGES
1. BUAD 430 Marketing Concepts 3(3-0)
   Course Prefix Changed MKTG 430
2. BUAD 432 Consumer Behavior 3(3-0)
   Course Prefix Changed MKTG 432
3. BUAD 433 Retailing 3(3-0)
   Course Prefix Changed MKTG 433
4. BUAD 434 Business-to-Business (B2B) Marketing 3(3-0)
   Course Prefix Changed MKTG 434
5. BUAD 435 Selling and Sales Management 3(3-0)
   Course Prefix Changed MKTG 435
6. BUAD 438 Marketing Communications 3(3-0)
   Course Prefix Changed MKTG 438
7. BUAD 498 Customer Relationship Marketing/Management (CRM&M) Internship 3(3-0) 
   Course Prefix Changed MKTG 498
8. BUAD 535 Customer Relationship Marketing/Management (CRM&M) Concepts 3(3-0) 
   Course Prefix Changed MKTG 535
9. BUAD 536 Customer Relationship Marketing & Management Technologies 3(3-0) 
   Course Prefix Changed MKTG 536
10. BUAD 537 International Marketing 3(3-0) 
    Course Prefix Changed MKTG 537
11. BUAD 538 Marketing Research 3(3-0) 
    Course Prefix Changed MKTG 538
12. BUAD 539 Special Topics in Customer Relationship Marketing & Management 3(3-0) 
    Course Prefix Changed MKTG 539
13. BUAD 639 Marketing Management 3(3-0) 
    Course Prefix Changed MKTG 639
14. BUAD 716 Strategic Marketing 3(3-0) 
    Course Prefix Changed MKTG 716
15. BUAD 610 Interdisciplinary Seminar in Transportation 3(3-0) 
    Course Prefix Changed TSCM 610
16. TRAN 340 Introduction to Supply Chain 3(3-0) 
    Course Prefix Changed TSCM 340
17. TRAN 360 Introduction to Transportation 3(3-0) 
    Course Prefix Changed TSCM 360
18. TRAN 431 Supply Chain Analysis 3(3-0) 
    Course Prefix Changed TSCM 431
19. TRAN 450 Carrier Management 3(3-0) 
    Course Prefix Changed TSCM 450
20. TRAN 470 Urban Transportation Concepts 3(3-0) 
    Course Prefix Changed TSCM 470
21. TRAN 580 International Logistics and Supply Chain Management 3(3-0) 
    Course Prefix Changed TSCM 580
22. TRAN 598 Independent Study 3(3-0) 
    Course Prefix Changed TSCM 598
23. TRAN 600 Special Topics in Transportation and Logistics 3(3-0) 
    Course Prefix Changed TSCM 600
24. TRAN 650 Transportation Law 3(3-0) 
    Course Prefix Changed TSCM 650
25. TRAN 665 Transportation Regulation and National Policy 3(3-0) 
    Course Prefix Changed TSCM 665
26. TRAN 660 National Transportation Policy 3(3-0) 
    Course Prefix Changed TSCM 660
27. TRAN 670 Materials Management 3(3-0) 
    Course Prefix Changed TSCM 670
28. TRAN 672 Purchasing and Supply Management 3(3-0) 
    Course Prefix Changed TSCM 672
29. TRAN 701 Strategic Logistics Management 3(3-0) 
    Course Prefix Changed TSCM 701
30. TRAN 720 Analysis and Design of Supply Chain Systems 3(3-0) 
    Course Prefix Changed TSCM 720
31. TRAN 725 Purchasing Materials Management 3(3-0) 
    Course Prefix Changed TSCM 725
32. TRAN 727 Global Supply Chain Management 3(3-0) 
    Course Prefix Changed TSCM 727
33. TRAN 730 Transportation Planning  
   Course Prefix Changed  TSCM 730  

**Department of Economics and Finance**  
*Presented by Dr. John Cole*

**COURSE CHANGES**

1. **ECON 410** Intermediate Microeconomic Theory  
   Prerequisite changed to *Econ 200 and Econ 310 or equivalent*  
   Description changed  
   3(3-0)
2. **ECON 412** Quantitative Analysis  
   Prerequisite changed to *Econ 200, Econ 201 and Math 112 or 131*  
   3(3-0)
3. **ECON 415** Money and Banking  
   Prerequisite changed to *Econ 200, Econ 201 and ECON 305 or equivalent*  
   Description changed  
   3(3-0)
4. **ECON 420** Intermediate Macroeconomic Theory  
   Prerequisite changed to *Econ 20, Econ 310*  
   Description changed  
   3(3-0)
5. **ECON 501** Labor Relations  
   Prerequisite changed to *Econ 200, Econ 310*  
   Title changed to Labor Economics  
   Description changed  
   3(3-0)
6. **ECON 525** Economics Seminar  
   Prerequisite changed to *Econ 200, Econ 310*  
   3(3-0)

**Department of Human Development and Services**  
*Presented by Dr. Patricia Whitfield*

**NEW COURSES**

1. **HDSV 752** American Sign Language  
   3(3-0)
2. **HDSV 762** Advanced Assessment in Rehabilitation  
   3(3-0)
3. **HDSV 771** Foundations of Vocational Evaluation  
   3(3-0)
4. **HDSV 772** Vocational Evaluation Laboratory  
   3(3-0)
5. **HDSV 776** Principles of Work Adjustment  
   3(3-0)
6. **HDSV 777** Assistive Technology in Vocational Evaluation and Work Adjustment Services  
   3(3-0)
7. **HDSV 701** Counseling Exceptional Children  
   3(3-0)
8. **HDSV 753** Counseling Children and Adolescents  
   3(3-0)
9. **HDSV 754** Advanced Theory in Family Counseling  
   3(3-0)
10. **HDSV 756** Counseling Couples  
    3(3-0)
11. **HDSV 757** Special Topics in Marriage and Family Counseling  
    3(3-0)
12. **HDSV 774** Counseling Poor and Ethnically Diverse Families  
    3(3-0)
13. **HDSV 758** Clinical Assessment: The Diagnostic and Statistical Manual  
    3(3-0)

**COURSE CHANGE**

1. **HDSV 739** Community Agency Counseling  
   Course number changed to HDSV 611  
   Prerequisite changed to *None*  
   3(3-0)

**NEW CONCENTRATIONS**

1. Human Resources (Rehabilitation Counseling) – **Certificate in Vocational Evaluation and Work Adjustment** – 12 credits
2. Master of Science Degree – Human Resources Community/Agency Counseling with **Certificate in Marriage and Family Counseling** – 12 credits

New Programs and Curricula  
April 2009 Report
### Department of Physics
**Presented by Drs. Samuel Danagoulian, A. Ahmidouch, R. Pedroni**

#### NEW COURSES
1. PHYS 407 Intermediate Physics Laboratory 2(1-2)
2. PHYS 442 Structural Geology 3(3-0)

#### COURSE CHANGES
1. PHYS 300 Introduction to Geophysics 3(3-0)
   - Course Number Changed to PHYS 290
2. PHYS 520 Advanced Laboratory 2(1-3)
   - Prerequisite Changed to PHYS 407
   - Description Change
3. PHYS 601 Selected Topics in Geophysics 3(2-2)
   - Prerequisite Changed to Permission of the instructor and Senior or Graduate Standing
   - Description Change

### Department of Agribusiness, Applied Economics and Agriscience Education
**Presented by Dr. John O'Sullivan**

#### NEW COURSE
1. AGRI 400 Sustaining Agriculture, Food, Fiber, Nutrition and Community For Humanity's Future 3(3-0)

### Department of Curriculum and Instruction
**Presented by Dr. Dorothy Leflore**

#### NEW COURSES
1. INST 765 Supervision and Management for Media and Technology Coordinators 3(3-0)
2. INST 788 Comprehensive Examination 0(0-0)

### Department of Natural Resources and Environmental Design
**Presented by Dr. Guochen Yang**

#### COURSE CHANGES
1. HORT 612 Plant Materials and Landscape Maintenance 3(2-2)
   - Title changed to Integrated Pest Management (IPM) Systems
   - Prerequisite changed to Instructor's Consent
   - Credit hours changed to 3(2-3)
   - Description changed
2. HORT 700 Plant Biotechniques 3(1-4)
   - Credit hours changed to 3(2-2)
   - Description changed

### Department of Political Science and Criminal Justice
**Presented by Drs. Samuel Moseley and James Mayes**

#### NEW COURSES
1. POLI 390 Political Economy 3(3-0)
2. POLI 441 The Politics of Free Trade 3(3-0)

New Programs and Curricula April 2009 Report
### COURSE CHANGES

1. **CRJS 200** Introduction to Criminal Justice  
   Title changed to *Critical Criminology*  
   Description changed

2. **CRJS 440** GIS for Social Sciences  
   Title changed to *Applied Methods*  
   Description changed

3. **CRJS 520** Minorities and the Criminal Justice System  
   Title changed to *Race, Class and Gender in the Criminal Justice System*

### COURSE DELETIONS

1. **CRJS 250** Introduction to Corrections
2. **CRJS 300** Law Enforcement Process
3. **CRJS 400** Police Administration

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### NEW COURSES

1. **GCS 142** Printing Workflows and Processes  
   3(2-2)

2. **GCS 225** Solid Modeling II  
   3(2-2)

3. **GCS 226** Graphic Animation I  
   3(2-2)

4. **GCS 325** Intermediate Machine Design  
   3(2-2)

5. **GCS 343** Lithography II  
   3(2-2)

6. **GCS 344** Flexography II  
   3(2-2)

7. **GCS 345** Painting Sales and Customer Service  
   3(2-2)

8. **GCS 443** Corrugated and Paperboard Packaging  
   3(2-2)

9. **GCS 451** Cooperative Learning Experience I  
   3(3-0)

10. **GCS 461** Senior Capstone for Graphic Communication Systems and Technological Studies  
    3(3-0)

11. **TECH 111** Introduction to Training and Development  
    3(3-0)

12. **TECH 312** Curriculum Development and Technological Studies  
    3(3-0)

13. **TECH 313** Instructional Methods and Techniques in Training & Development  
    3(3-0)

14. **TECH 314** Evaluation and Assessment in Training & Development  
    3(3-0)

15. **TECH 411** Technological Program Planning  
    3(3-0)

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### COURSE CHANGES

1. **GCS 110** Designing for Graphic Communications  
   Course number changed to **GCS 181**  
   Course Title changed to *Introduction to Media Design*  
   Course Description Changed

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New Programs and Curricula April 2009 Report
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30. GCS 445 Game Technology and Design II  
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   Prerequisite changed to GCS 380  

31. GCS 500 Graphic and Technology Education Senior Seminar  
   Course number changed to GCS 400  
   Course Title changed to Senior Seminar for Graphic Communication and Technology Education  
   Prerequisite changed to Graduating Seniors and Consent Of Department  
   Course description changed  

32. TECH 510 Research and Development in Technological Systems  
   Course number changed to TECH 401  
   Prerequisite changed to Senior Standing  
   Course description changed  

33. GCS 533 Machine Design and Drafting  
   Course number changed to GCS 324  
   Course Title changed to Introduction to Machine DesignI  
   Prerequisite changed to GCS 225  

34. GCS 534 Cartographic Drafting and Design  
   Course number changed to GCS 372  
   Course Title changed to Introduction to Geographic Information Systems  
   Prerequisite changed to Junior Standing or Consent of Instructor  
   Course description changed  

35. GCS 535 Interdisciplinary Decision Making using GIS Technology  
   Course number changed to GCS 427  
   Prerequisite changed to GCS 328  

36. GCS 536 Computer Aided Design and Geographic Information Systems  
   Course number changed to GCS 328  
   Course Title changed to Intermediate Geographic Information Systems  
   Prerequisite changed to GCS 327  
   Course description changed  

37. TECH 566 Technology Education Teaching Methods  
   Course number changed to TECH 402  
   Prerequisite changed to Consent of Instructor  

38. GCS 581 Principles of Ink and Paper Technology  
   Course number changed to GCS 342  
   Course Title changed to Principles of Ink and Substrates  
   Prerequisite changed to GCS 241  

39. GCS 585 Graphic Communication Production Management  
   Course number changed to GCS 442  
   Prerequisite changed to GCS 441  

40. GCS 590 Estimating in Graphic Communication  
   Course number changed to GCS 441  
   Prerequisite changed to GCS 342  

41. GCS 630 Multimedia and Videography  
   Course number changed to GCS 382  
   Course Title changed to Multimedia and Videography I  
   Prerequisite changed to Junior Standing or Consent of Instructor  
   Course description changed
42. GCS 634 Advanced Multimedia and Videography 3(2-2)
   Course number changed to GCS 387
   Course Title changed to Multimedia and Videography II
   Prerequisite changed to GCS 382 or Consent of Instructor
   Course description changed

43. GCS 636 Web Design for Distance Education 3(2-2)
   Course number changed to GCS 480
   Prerequisite changed to GCS 381 or Consent of Instructor

44. GCS 638 Computer Aided Design and Drafting Management 3(3-0)
   Course number changed to GCS 429
   Prerequisite changed to GCS 428 or Consent of Instructor
   Course description changed

45. GCS 639 Digital Architecture 3(2-2)
   Course number changed to GCS 321
   Prerequisite changed to GCS 223

46. GCS 640 Architectural Technology and Sustainable Design 3(2-2)
   Course number changed to GCS 422
   Prerequisite changed to GCS 421 or Consent of Instructor

47. GCS 641 Architectural Animation and Rendering 3(2-2)
   Course number changed to GCS 322
   Prerequisite changed to GCS 321

48. GCS 670 Web Design for E-Commerce 3(2-2)
   Course number changed to GCS 386
   Prerequisite changed to GCS 381 or Consent of Instructor

COURSE DELETIONS
1. GCS 101 Colloquium I 0(0-1)
2. GCS 102 Colloquium II 0(0-1)
3. GCS 203 Colloquium III 0(0-1)
4. GCS 204 Colloquium IV 0(0-1)
5. GCS 331 Advanced Photographic Imaging 3(2-2)
6. GCS 335 Computer Aided Descriptive Geometry 3(2-2)
7. GCS 336 Corrugated and Paperboard Structure Design 3(2-2)
8. TECH 210 General Crafts 3(2-2)
9. TECH 261 Introduction to Industrial Education 3(3-0)
10. TECH 462 Organizational and Management of Technology Education 3(3-0)
11. TECH 463 Career Guidance and Occupational Information 3(3-0)
12. TECH 465 Instructional Analysis Techniques 3(3-0)

Department of Construction Management and Occupational Safety and Health
Presented by Drs. Syrulwa Somah and Shofoluwe

NEW CONCENTRATION
Occupational Safety and Health Safety Management Concentration – 126 credit hours
Master of Science in Industrial Technology with concentration in Emergency and Disaster Management (36 credit hours)

NEW COURSES
1. CM 256 Introduction to Building Information Model (BIM) 3(2-2)
2. CM 348 Foundations and Soil Mechanics 3(2-2)
3. CM 460 Principles of Sustainable Development and Construction 3(3-0)
4. CM 590 Heavy Construction Methods 3(3-0)
5. OSH 220 Safety and Security Management 3(3-0)
6. OSH 417 Introduction to Job Search, Internship and Work Environment 3(3-0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OSH 426</td>
<td>Terrorism and Workplace Safety</td>
<td>3(3-0)</td>
</tr>
<tr>
<td>OSH 510</td>
<td>Workplace Violence Prevention and Reaction</td>
<td>3(3-0)</td>
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</tbody>
</table>

**COURSE CHANGES**

1. **CM 100**  
   - Orientation to Construction Management  
   - Course title changed to *Computer Applications in Construction Management*  
   - Credit hours changed to 3(2-2)  
   - Description changed

2. **CM 216**  
   - Commercial/Industrial Construction Methods and Equipment  
   - Title changed to *Construction Methods and Equipment*  
   - Credit hours changed to 3(2-2)  
   - Description changed

3. **CM 310**  
   - Construction Structures I  
   - Title changed to *Principles of Structures*  
   - Credit hours changed to 3(2-2)  
   - Description changed

4. **CM 318**  
   - Advanced Construction Estimating  
   - Title changed to *Estimating Software Applications*  
   - Credit hours changed to 3(2-2)  
   - Description changed

5. **CM 410**  
   - Construction Structures II  
   - Title changed to *Structural Systems*  
   - Credit hours changed to 3(2-2)  
   - Description changed

6. **CM 412**  
   - Mechanical and Electrical Systems in Construction  
   - Title changed to *Mechanical, Electrical & Plumbing Systems in Construction*  
   - Credit hours changed to 3(2-2)  
   - Description changed

7. **CM 497**  
   - Industrial Experience I  
   - Course number changed to CM 300  
   - Prerequisite changed to CM 100, 150, 190, 215  
   - Credit hours changed to 1(0-3)  
   - Description changed

8. **CM 498**  
   - Industrial Experience II  
   - Course number changed to CM 301  
   - Prerequisite changed to CM 300  
   - Credit hours changed to 3(3-0)  
   - Description changed

9. **CM 500**  
   - Senior Seminar  
   - Title changed to *Senior Capstone Project I*  
   - Prerequisite changed to Senior Standing, CM 320, 348, 460  
   - Credit hours changed to 3(3-0)  
   - Description changed

10. **CM 501**  
    - Senior Project  
    - Title changed to *Senior Capstone Project II*  
    - Prerequisite changed to Senior Standing, CM 500  
    - Credit hours changed to 3(3-0)  
    - Description changed

11. **CM 596**  
    - Construction Financial Management and Organization  
    - Prerequisite changed to ACCT 203, BUAD 425, Senior Standing, CM Major  
    - Credit hours changed to 3(2-3)  
    - Description changed

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**NEW COURSE**

1. **ECEN 547**  
   - Introduction to Telecommunication Networks  
   - Credit hours changed to 3(3-0)  
   - Description changed

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**COURSE CHANGES**

1. **ECEN 410**  
   - Linear Control Systems  
   - Course number changed to ECEN 510  
   - Description changed

---

Department of Electrical and Computer Engineering
Presented by Dr. Lebby
2. **ECEN 470**  
   Properties of Materials for Electrical Engineering  
   Course number changed to **ECEN 570**  
   Course title changed to **Properties of Materials of Electrical Engineering**  
   Description changed

**CHANGE IN GRADUATION HOURS**

Electrical and Computer Engineering graduation have been changed from 125 to 126 because of a 2-credit hour advanced laboratory was replaced by a 3-credit hour course.

_Department of Civil, Architectural, Agricultural, and Environmental Engineering_  
_Presented by Drs. Sameer Hamoush and Shahbazi_

<table>
<thead>
<tr>
<th>COURSE CHANGES</th>
</tr>
</thead>
</table>
| 1. **AGEN 360** | General Hydrology  
| Prefix changed to **BIOE 360**  
| Prerequisite changed to **CAAE 362/MEEN 416** | 3(2-2)  
| 2. **AREN 630** | Advanced Structural Analysis  
| Prefix and number changed to **CIEN 640**  
| Prerequisite changed to **CAAE 325** | 3(3-0)  
| 3. **AREN 632** | Geographic Information Systems in Engineering and Natural Resources  
| Prefix changed to **CIEN**  
| Prerequisite changed to **CAAE 530 or Consent of Instructor** | 3(3-0)  
| 4. **AREN 633** | Foundations & Soils Structures  
| Prefix changed to **CIEN**  
| Prerequisite changed to **CAAE 536 or equivalent** | 3(3-0)  
| 5. **AREN 639** | Masonry Design  
| Prefix changed to **CIEN**  
| Prerequisite changed to **CAAE 536** | 3(3-0)  
| 6. **AREN 642** | Lighting Applications I  
| Number changed to **AREN 542**  
| Prerequisite changed to **AREN 448** | 3(3-0)  
| 7. **AREN 645** | Electrical Systems for Buildings II  
| Number changed to **AREN 545**  
| Prerequisite changed to **AREN 448** | 3(3-0)  
| 8. **AREN 654** | Facilities Management  
| Number changed to **AREN 554**  
| Prerequisite changed to **Consent of Instructor** | 3(3-0)  
| 9. **AREN 662** | HVAC Systems Design  
| Number changed to **AREN 562**  
| Prerequisite changed to **AREN 364 and Senior standing** | 3(3-0)  
| 10. **AREN 670** | Energy and the Environment  
| Number changed to **AREN 570** | 3(3-0)  
| 11. **AREN 672** | Energy Conservation in Buildings  
| Number changed to **AREN 572**  
| Prerequisite changed to **AREN 364, AREN 448, or Consent of Instructor** | 3(3-0)  
| 12. **AREN 675** | Energy Management for Buildings  
| Number changed to **AREN 575** | 3(3-0)  
| 13. **AREN 682** | Architectural Design III  
| Number changed to **AREN 582** | 3(0-6)  
| 14. **AREN 683** | Architectural Design IV  
| Prefix changed to **CIEN**  
| Prerequisite changed to **AREN 582** | 3(0-6)  

New Programs and Curricula April 2009 Report
NEW COURSES

1. NURS 325 Foundations of Professional Nursing  
   5(3-4)
2. NURS 413 Psychiatric Mental Health Nursing – 2nd Degree  
   4(3-0-3)
3. NURS 419 Nursing Care of Childbearing Families – 2nd Degree  
   4(3-0-3)
4. NURS 501 Pediatric Nursing – 2nd Degree  
   4(3-0-3)
5. NURS 511 Community Health Nursing – 2nd Degree  
   4(3-0-3)

NEW CONCENTRATIONS

1. Atmospheric Sciences (EES 750 & 751 plus at least two of EES 752, 753, 754, 755, 785 or 885 along with dissertation research in Atmospheric Sciences)
2. Sustainable Bioproducts (EES 740 plus at least three of EES 741, 742, 743, 744, 785, or 885 along with dissertation research in Sustainable Bioproducts)
3. Energy & Environmental Sciences and Economics (At least four of AGEC 710, 705, 708, ECON 701, 705, 710 720, EES 785, or 885, along with dissertation research in Energy & Environmental Sciences and Economics)

NEW COURSES

1. EES 740 Fundamentals of Biomaterial Sciences & Bioprocess Systems  
   3(3-0)
2. EES 741 Biomaterials Characterization  
   3(3-0)
3. EES 742 Biomass Thermal Conversion Processes  
   3(3-0)
4. EES 743 Biomass Biological Conversion Processes  
   3(3-0)
5. EES 744 Environmental and Policy Studies of Biomass Use  
   3(3-0)
6. EES 751 Dynamic Meteorology  
   3(3-0)
7. EES 752 Climatology  
   3(3-0)
8. EES 753 Numerical Weather Prediction  
   3(3-0)
9. EES 754 Advanced Weather Analysis  
   3(3-0)
10. EES 755 Principles of Air Quality  
    3(3-0)

COURSE CHANGES

1. EES 710 Applied Environmental Chemistry and Microbiology  
   Title changed to Environmental Chemistry  
   Credit Hours changed to 3(3-0)  
   Description changed
2. EES 720 Theory and Practice of Alternative Energy Technologies  
   Title changed to Sustainable Energy Systems  
   Credit Hours changed to 3(3-0)  
   Description changed
3. EES 750 Atmospheric Physical and Chemical Processes  
   Title changed to Physical Meteorology  
   Credit Hours changed to 3(3-0)  
   Description changed
4. EES 785 Special Topics  
   Credit Hours changed to Variable Credit 2(2-4)  
   Description changed

Credit hours for graduation changed from 52 hours to 75 hours for the new BS to PhD option.
5. EES 810  Theory and Practice of Energy and Environmental Economic Policy Analysis 3(3-0)
   Course number changed to EES 711
   Title changed to *Environmental & Energy Economics I*
   Prerequisite changed to *Graduate standing and consent of instructor*
   Description changed

6. EES 811  Application of Energy and Environmental Economic Policy Analysis 3(2-2)
   Course number changed to EES 712
   Title changed to *Environmental & Energy Economics II*
   Prerequisite changed to EES 711
   Credit hours changed to 3(3-0)
   Description changed

7. EES 885  Doctoral Special Topics 3(3-0)
   Credit hours changed to *Variable Credit 2(2-4)*

8. EES 991  Doctoral Qualifying Examination 0(0-1)
   Prerequisite changed to *Doctoral standing and consent of instructor*
   Description changed

9. EES 994  Doctoral Supervised Research 3(3-0)
   Credit hours changed to *Variable Credit 3(3-9)*
   Description changed

10. EES 997  Doctoral Dissertation  Variable Credit 3(3-9)
      Prerequisite changed to Prerequisite or Co-requisite: EES 995
      Description changed

**Department of Manufacturing Systems**
**Presented by Dr. Ji Y. Shen**

**CREDIT HOURS CHANGED**
Credit hours for graduation changed from 36 hours to 33 hours to be consistent with similar graduate programs in UNC system.

**NEW COURSES**
1. MFG 301  Industrial Statistics and Probability 3(3-0)
2. MFG 477  Piezoelectric Materials 3(3-0)
3. MFG 492  Mechanics of Materials for Technology Majors 3(3-0)
4. MFG 575  Manufacturing Project Management 3(3-0)
5. MSIT 600  Graduate Seminar 1(1-0)
6. MFG 614  Industrial Logistics 3(3-0)
7. MFG 621  Industrial Management Decision Making 3(3-0)
8. MSIT 701  Leadership and Technological Innovations 2(2-0)
9. MSIT 702  Enterprise Resource Planning Systems 3(3-0)
10. MSIT 703  Statistics and Probability in Industrial Technology 3(3-0)
11. MSIT 704  Research Methods for Industrial Technology 3(3-0)
12. MSIT 705  Advanced Industrial Statistics and Probability 3(3-0)
13. MFG 720  Industrial Economics 3(3-0)
14. MFG 721  Industrial Operation Management 3(3-0)
### COURSE CHANGES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Number</th>
<th>Course Prerequisite</th>
<th>Course Credit Hours</th>
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<tr>
<td>MFG 400</td>
<td>Technology Seminar</td>
<td>MFG 300</td>
<td>Sophomore Standing</td>
<td>3(2-2)</td>
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<tr>
<td>MFG 471</td>
<td>Metallic Material Processes</td>
<td>MFG 271</td>
<td>MFG 191 or consent of the instructor</td>
<td>3(1-3)</td>
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<tr>
<td>MFG 472</td>
<td>Numerically Controlled Machine-Tool Technology</td>
<td>MFG 373</td>
<td>Junior Standing</td>
<td>3(1-3)</td>
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<tr>
<td>MFG 474</td>
<td>Polymer Process I</td>
<td>MFG 274</td>
<td>Sophomore standing</td>
<td>3(1-3)</td>
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<tr>
<td>MFG 475</td>
<td>Polymer Process II</td>
<td>MFG 373</td>
<td>Junior Standing</td>
<td>3(1-3)</td>
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<tr>
<td>MFG 480</td>
<td>Mechanical Design and Manufacturing Problems</td>
<td>MFG 380</td>
<td>Junior Standing</td>
<td>3(1-3)</td>
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<tr>
<td>MFG 491</td>
<td>Statics and Mechanics of Materials</td>
<td>MFG 391</td>
<td>Statics for Technology Majors</td>
<td>3(2-2)</td>
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<tr>
<td>MFG 493</td>
<td>Manufacturing Planning and Management</td>
<td>MFG 393</td>
<td>Junior standing or consent of the instructor</td>
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<tr>
<td>MFG 576</td>
<td>Manufacturing-Production and Control</td>
<td>MFG 394</td>
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<tr>
<td>MSIT 750</td>
<td>Internship I</td>
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<td>Internship</td>
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### DELETED COURSES

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<tr>
<td>MFG 591</td>
<td>Early Manufacturing Involvement</td>
<td>3(2-2)</td>
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<tr>
<td>MSIT 751</td>
<td>Internship II</td>
<td>3(0-6)</td>
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<tr>
<td>MSIT 780</td>
<td>Reliability Testing and Analysis</td>
<td>3(3-0)</td>
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<tr>
<td>MSIT 790</td>
<td>Research Methods</td>
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</table>
# New Programs and Curricula  
April 2009 Report

## Department of Family and Consumer Sciences
Presented by Drs. Giddings and Lynch

### NEW COURSES
1. **FCS 454**  
   Quantity Foods Procurement and Production  
   4(1-6)
2. **FCS 536**  
   Inclusive Environments for Young Children and Families  
   3(3-0)
3. **FCS 543**  
   Food Preservation  
   3(2-2)
4. **FCS 545**  
   Food Chemistry  
   3(2-2)
5. **FCS 546**  
   Applied Food Science Seminar  
   1(1-0)
6. **FCS 547**  
   Food Analysis  
   3(1-4)
7. **FCS 548**  
   Food Commodity Processing  
   3(3-0)
8. **FCS 555**  
   Maternal and Lifespan Nutrition  
   3(3-0)
9. **FCS 649**  
   Food Laws and Regulations  
   3(3-0)
10. **FCS 654**  
    Nutrition Education  
    3(3-0)
11. **FCS 715**  
    Trace Elements and Nutrition  
    3(3-0)
12. **AGRI 499**  
    Undergraduate Research  
    3(0-6)

### COURSE CHANGES – 31
1. **FCS 101**  
   Introduction to Family and Consumer Sciences  
   Course number changed to FCS 160  
   1(1-0)
2. **FCS 130**  
   Food Preparation and Meal Management  
   Course number changed to FCS 150  
   3(2-2)
3. **FCS 135**  
   Food and Man’s Survival  
   Course title changed to *Food for Weight Management*  
   Course number changed to FCS 155  
   Description changed  
   3(3-0)
4. **FCS 236**  
   Introduction to Food Science  
   Course number changed to FCS 245  
   3(2-2)
5. **FCS 310**  
   Introduction to Human Development  
   Course number changed to FCS 260  
   Prerequisite changed to FCS 160  
   3(3-0)
6. **FCS 336**  
   Contemporary Nutrition  
   Course number changed to FCS 356  
   3(3-0)
7. **FCS 337**  
   Introduction to Human Nutrition  
   Course number changed to FCS 357  
   Prerequisite changed to *CHEM 107, CHEM 117*  
   3(2-2)
8. **FCS 344**  
   Organizational Management in Food Service  
   Course number changed to FCS 354  
   Prerequisite changed to *FCS 150*  
   3(3-0)
9. **FCS 514**  
   An Integrative Approach to Family and Consumer Sciences  
   Course number changed to FCS 660  
   Prerequisite changed to *FCS 260*  
   Description changed  
   3(3-0)
10. **FCS 522**  
    Food Engineering  
    Course number changed to FCS 542  
    Prerequisite changed to *PHYS 110, PHYS 111*  
    3(2-2)
11. **FCS 612**  
    Senior Seminar  
    Course title changed to *Applied Research in Family and Consumer Sciences*  
    Course number changed to FCS 460  
    Prerequisite changed to Junior or Senior Year  
    Description changed  
    3(3-0)
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite/Corerequisite</th>
</tr>
</thead>
</table>
| FCS 630       | Advanced Nutrition           | 3(3-0) | Course number changed to FCS 554  
Prerequisite changed to FCS 357, CHEM 221, CHEM 223,  
Corerequisite: CHEM 251 and CHEM 252 |
| FCS 636       | Food Promotion               | 4(1-6) | Course number changed to FCS 646  
Prerequisite changed to FCS 245, FCS 357, FCS 542, FCS 545  
Description changed |
| FCS 638       | Sensory Evaluation           | 3(2-2) | Course number changed to FCS 647  
Prerequisite changed to FCS 245, FCS 357, MATH 224  
Description changed |
| FCS 648       | Community Nutrition          | 3(2-2) | Course number changed to FCS 658  
Prerequisite changed to FCS 654  
Description changed |
| FCS 651       | Food Safety and Sanitation   | 3(3-0) | Course number changed to FCS 443  
Prerequisite changed to FCS 245, BIOL 220  
Description changed |
| FCS 653       | Food Biotechnology           | 3(1-4) | Course number changed to FCS 644  
Prerequisite changed to FCS 245, BIOL 220  
Description changed |
| FCS 656       | Nutritional Therapy I        | 4(4-0) | Course number changed to FCS 656  
Prerequisite changed to FCS 554, CHEM 251 and CHEM 252 |
| FCS 657       | Nutritional Therapy II       | 4(4-0) | Course number changed to FCS 657 |

**Department of Mathematics**  
**Presented by Dr. Giles Warrack**

**COURSE CHANGES**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite/Corerequisite</th>
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</table>
| MATH 101      | Fundamentals of Algebra and Trigonometry I| 3(3-0) | Prerequisite changed to None  
Prerequisite changed to None |
| MATH 110      | Pre-Calculus for Engineers and Scientists | 4(4-0) | Prerequisite changed to None  
Prerequisite changed to None |
| MATH 111      | College Algebra and Trigonometry          | 4(4-0) | Prerequisite changed to None  
Prerequisite changed to None |
| MATH 123      | Discrete Mathematics I                    | 3(3-0) | Prerequisite changed to None  
Prerequisite changed to None |
| MATH 131      | Calculus I                                | 4(4-0) | Prerequisite changed to None  
Prerequisite changed to None |
| MATH 224      | Introduction to Probability and Statistics| 3(3-0) | Prerequisite changed to MATH 101 or MATH 110 or MATH 111 or MATH 131 |
| MATH 432      | Introduction to Applied Mathematics       | 3(3-0) | Prerequisite changed to MATH 231 and MATH 431 |
| MATH 440      | Numerical Methods                         | 3(3-0) | Prerequisite changed to MATH 132 and GEEN 160 or GEEN 161 or GEEN 163 or MATH 240 |

New Programs and Curricula April 2009 Report
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>MATH 511</td>
<td>Abstract Algebra I</td>
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<td>Prerequisite changed to <strong>MATH 231 and MATH 311</strong></td>
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<td>MATH 604</td>
<td>Modern Geometry for Secondary School Teachers</td>
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<td>MATH 607</td>
<td>Theory of Numbers</td>
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<td>MATH 610</td>
<td>Complex Variables I</td>
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<td>MATH 620</td>
<td>Elements of Set Theory and Topology</td>
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<td>Prerequisite changed to <strong>MATH 603 or MATH 507 or Consent of instructor</strong></td>
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<td>MATH 631</td>
<td>Linear and Non-Linear Programming</td>
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<td>Prerequisite changed to <strong>MATH 450 and GEEN 160 or GEEN 163 or consent of instructor</strong></td>
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<tr>
<td>MATH 651</td>
<td>Partial Differential Equations</td>
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<td>Prerequisite changed to <strong>MATH 432 or consent of instructor</strong></td>
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<tr>
<td>MATH 652</td>
<td>Methods of Applied Mathematics</td>
<td>3(3-0)</td>
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<td>Prerequisite changed to <strong>MATH 431 or consent of instructor</strong></td>
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<tr>
<td>MATH 675</td>
<td>Graph Theory</td>
<td>3(3-0)</td>
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<td>Prerequisite changed to <strong>MATH 450 and MATH 223 or MATH 311 or consent of instructor</strong></td>
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<tr>
<td>MATH 692</td>
<td>Independent Study</td>
<td>3(3-0)</td>
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<td>Prerequisite changed to <strong>Permission of the instructor</strong></td>
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**Computer Science**

*Presented by Ms. Shearon Brown*

**NEW CONCENTRATION**

Proposed BS in Computer Science with a Concentration in Information Assurance - 124 credits

**NEW COURSES**

1. COMP 101 Introduction to Computer Science 3(3-0)
2. COMP 180 Discrete Structures 3(3-0)

**COURSE CHANGES**

1. COMP 280 Data Structures 3(3-0)
   Prerequisite changed to **GEEN 165, (COMP 180 or ECEN 227 or MATH 123)**
   *Description changed*
2. COMP 285 Analysis of Algorithms 3(3-0)
   Prerequisite changed to **COMP 280, MATH 131**
3. COMP 360 Programming Languages 3(3-0)
   Prerequisite changed to **COMP 280**
4. COMP 375 Computer Architecture and Organization 3(3-0)
   Prerequisite changed to **COMP 370 or ECEN 327**
5. COMP 385 Theory of Computing 3(3-0)
   *Description changed*
6. COMP 390 Social Implications of Computing 3(3-0)
   Prerequisite changed to **None**
7. COMP 450 Operating Systems 3(3-0)
   Prerequisite changed to **COMP 375 or Co-requisite COMP 375**
8. COMP 476 Networked Computer Systems 3(3-0)
   Prerequisite changed to **COMP 370 or ECEN 327**
9. GEEN 165       Computer Program Design       4(3-2)
Prerequisite changed to *GEEN 163*

Respectfully submitted

*Thelma King*

Chairperson