

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

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

Department of Biology Presented by Dr. Coomans

NEW COURSES

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

COURSE CHANGE

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

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|-------------|--|--------|
| 1. BUAD 430 | Marketing Concepts
Course Prefix Changed MKTG 430 | 3(3-0) |
| 2. BUAD 432 | Consumer Behavior
Course Prefix Changed MKTG 432 | 3(3-0) |
| 3. BUAD 433 | Retailing
Course Prefix Changed MKTG 433 | 3(3-0) |
| 4. BUAD 434 | Business-to-Business (B2B) Marketing
Course Prefix Changed MKTG 434 | 3(3-0) |
| 5. BUAD 435 | Selling and Sales Management
Course Prefix Changed MKTG 435 | 3(3-0) |
| 6. BUAD 438 | Marketing Communications
Course Prefix Changed MKTG 438 | 3(3-0) |

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 3(3-0)
 Course Prefix Changed TSCM 730

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

COURSE CHANGES

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

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

NEW COURSES

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|-----|----------|--|--------|
| 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

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|----|----------|---|--------|
| 1. | HDSV 739 | Community Agency Counseling
Course number changed to HDSV 611
Prerequisite changed to <i>None</i> | 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**

Department of Physics
Presented by Drs. Samuel Danagoulian, A. Ahmidouch, R. Pedroni

NEW COURSES

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

COURSE CHANGES

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

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

NEW COURSE

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|----|----------|---|--------|
| 1. | AGRI 400 | Sustaining Agriculture, Food, Fiber, Nutrition and Community
For Humanity's Future | 3(3-0) |
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Department of Curriculum and Instruction
Presented by Dr. Dorothy Leflore

NEW COURSES

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|----|----------|---|--------|
| 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

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

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

NEW COURSES

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

3.	POLI 500	Latin American and Caribbean Political Economy	3(3-0)
4.	CRJS 310	Policing: Administration and Process	3(3-0)
5.	CRJS 320	Courts and the Judicial Process	3(3-0)
6.	CRJS 330	Corrections	3(3-0)
7.	CRJS 450	Criminal Law	3(3-0)
8.	CRJS 525	Drugs and Crime	3(3-0)
9.	CRJS 537	White Collar Crime	3(3-0)
10.	CRJS 545	Terrorism and War Crimes	3(3-0)
11.	CRJS 546	Survey in Forensics	3(3-0)

COURSE CHANGES

1.	CRJS 200	Introduction to Criminal Justice Title changed to <i>Critical Criminology</i> Description changed	3(3-0)
2.	CRJS 440	GIS for Social Sciences Title changed to <i>Applied Methods</i> <i>Description changed</i>	3(3-0)
3.	CRJS 520	Minorities and the Criminal Justice System Title changed to <i>Race, Class and Gender in the Criminal Justice System</i>	3(3-0)

COURSE DELETIONS

1.	CRJS 250	Introduction to Corrections	3(3-0)
2.	CRJS 300	Law Enforcement Process	3(3-0)
3.	CRJS 400	Police Administration	3(3-0)

***Department of Graphic Communications Systems and Technological Studies
Present by Dr. Robert Cobb***

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)

COURSE CHANGES

1.	GCS 110	Designing for Graphic Communications Course number changed to GCS 181 Course Title changed to <i>Introduction to Media Design</i> Course Description Changed	3(2-2)
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2.	GCS 120	Color Management Course number changed to GCS 185 Prerequisite changed to <i>GCS 181 or Consent of Instructor</i>	3(2-2)
3.	GCS 130	Graphic Communications Technology Course number changed to GCS 241 Course Title changed to <i>Lithography</i> Prerequisite changed to <i>GCS 142</i>	3(2-2)
4.	GCS 133	Introduction to Drafting Technology Course number changed to GCS 121 Course Title changed to <i>Computer Aided Design I</i>	3(2-2)
5.	TECH 211	Seminar in Technology Education Course Title changed to <i>Organization and Management Of Technology Education</i> Prerequisite changed to TECH 102 Credit hours changed to 3(3-0) Description changed	1(1-0)
6.	TECH 218	Introduction to Technology Course number changed to TECH 101	3(2-2)
7.	TECH 219	Technological Invention and Innovation Course number changed to TECH102 Prerequisite changed to TECH 101	3(2-2)
8.	GCS 234	Introduction to Drafting Technology Course number changed to GCS 122 Course Title changed to <i>Computer Aided Design II</i> Prerequisite changed to <i>GCS 121</i> Course description changed	3(2-2)
9.	GCS 250	Screen Printing Technology Course number changed to GCS 243 Prerequisite changed to <i>GCS 181</i>	3(2-2)
10.	GCS 263	Evolution and Social Implications of Technology Course number changed to GCS 211	3(3-0)
11.	GCS 292	Technical Communication Course number changed to GCS 212 Prerequisite changed to <i>ENGL 101 or UNST 110 and Sophomore Standing</i>	3(3-0)
12.	GCS 330	Introduction to Photographic Imaging Course number changed to GCS 280 Course Title changed to <i>Photography</i> Prerequisite changed to <i>GCS 181 or Consent of Instructor</i> Course description changed	3(2-2)
13.	GCS 332	Digital Image Editing Course number changed to GCS 285 Prerequisite changed to <i>GCS 181 or Consent of Instructor</i> Course description changed	3(2-2)
14.	GCS 333	Electric/Electronic Drafting Course number changed to GCS 323 Course Title changed to <i>Structural and Schematic Design</i> Prerequisite changed to <i>Junior Standing or Consent of Instructor</i> Course description changed	3(2-2)
15.	GCS 334	Architectural Drafting Course number changed to GCS 222 Course Title changed to <i>Introduction to Architectural DesignI</i> Prerequisite changed to <i>GCS 122</i>	3(2-2)

16.	GCS 340	Game Technology and Design I Course number changed to GCS 380 Prerequisite changed to <i>Junior Standing or Consent Of Instructor</i>	3(2-2)
17.	TECH 382	Computer Applications for Technological Studies Course number changed to <i>TECH 201</i> Prerequisite changed to <i>Sophomore</i>	3(3-0)
18.	TECH 412	Introduction to Construction Systems Course number changed to <i>TECH 203</i> Prerequisite changed to <i>TECH 202</i>	3(2-2)
19.	TECH 413	Introduction to Manufacturing Systems Course number changed to <i>TECH 204</i> Prerequisite changed to <i>TECH 202</i>	3(2-2)
20.	TECH 414	Introduction to Communication Systems Course number changed to <i>TECH 205</i> Prerequisite changed to <i>TECH 202</i>	3(2-2)
21.	TECH 415	Introduction to Transportation Systems Course number changed to <i>TECH 206</i> Prerequisite changed to <i>TECH 202</i>	3(2-2)
22.	GCS 416	Flexographic and Package Printing Course number changed to GCS 242 Course Title changed to <i>Flexography I</i> Prerequisite changed to <i>GCS 181</i>	3(2-2)
23.	TECH 416	Introduction to Biotechnology Systems Course number changed to <i>TECH 207</i> Prerequisite changed to <i>TECH 101</i>	3(2-2)
24.	GCS 418	Web Design for Graphic Communications Course number changed to GCS 381 Prerequisite changed to <i>Junior Standing or Consent Of Instructor</i>	3(2-2)
25.	GCS 430	Course description changed Technical Illustration and Design Course number changed to GCS 286 Course Title changed to <i>Technical Illustration</i> Prerequisite changed to <i>GCS 181 or Consent of Instructor</i>	3(2-2)
26.	GCS 433	Course description changed Geometric Dimensioning and Tolerancing Course number changed to GCS 224 Course Title changed to <i>Solid Modeling I</i> Prerequisite changed to <i>GCS 122</i>	3(2-2)
27.	GCS 434	Course description changed Advanced Architectural Drafting Course number changed to GCS 223 Course Title changed to <i>Intermediate Architectural Design I</i> Prerequisite changed to <i>GCS 222</i>	3(2-2)
28.	GCS 435	Architectural Design and Modeling Course number changed to GCS 421 Course Title changed to <i>Architectural Design III</i> Prerequisite changed to <i>GCS 223</i>	3(2-2)
29.	GCS 438	Course description changed Computer Aided Design and Drafting Productivity Course number changed to GCS 428 Prerequisite changed to <i>Senior Standing</i>	3(2-2)

30.	GCS 445	Game Technology and Design II Course number changed to GCS 385 Prerequisite changed to <i>GCS 380</i>	3(2-2)
31.	GCS 500	Graphic and Technology Education Senior Seminar Course number changed to GCS 400 Course Title changed to <i>Senior Seminar for Graphic Communication and Technology Education</i> Prerequisite changed to <i>Graduating Seniors and Consent Of Department</i> Course description changed	1(1-0)
32.	TECH 510	Research and Development in Technological Systems Course number changed to <i>TECH 401</i> Prerequisite changed to <i>Senior Standing</i> Course description changed	3(2-2)
33.	GCS 533	Machine Design and Drafting Course number changed to GCS 324 Course Title changed to <i>Introduction to Machine DesignI</i> Prerequisite changed to <i>GCS 225</i>	3(2-2)
34.	GCS 534	Cartographic Drafting and Design Course number changed to GCS 372 Course Title changed to <i>Introduction to Geographic Information Systems</i> Prerequisite changed to <i>Junior Sanding or Consent of Instructor</i> Course description changed	3(2-2)
35.	GCS 535	Interdisciplinary Decision Making using GIS Technology Course number changed to GCS 427 Prerequisite changed to <i>GCS 328</i>	3(2-2)
36.	GCS 536	Computer Aided Design and Geographic Information Systems Course number changed to GCS 328 Course Title changed to <i>Intermediate Geographic Information Systems</i> Prerequisite changed to <i>GCS 327</i> Course description changed	3(2-2)
37.	TECH 566	Technology Education Teaching Methods Course number changed to <i>TECH 402</i> Prerequisite changed to <i>Consent of Instructor</i>	3(2-2)
38.	GCS 581	Principles of Ink and Paper Technology Course number changed to GCS 342 Course Title changed to <i>Principles of Ink and Substrates</i> Prerequisite changed to <i>GCS 241</i>	3(2-2)
39.	GCS 585	Graphic Communication Production Management Course number changed to GCS 442 Prerequisite changed to <i>GCS 441</i>	3(2-2)
40.	GCS 590	Estimating in Graphic Communication Course number changed to GCS 441 Prerequisite changed to <i>GCS 342</i>	3(2-2)
41.	GCS 630	Multimedia and Videography Course number changed to GCS 382 Course Title changed to <i>Multimedia and Videography I</i> Prerequisite changed to <i>Junior Standing or Consent of Instructor</i> Course description changed	3(2-2)

42.	GCS 634	Advanced Multimedia and Videography Course number changed to GCS 387 Course Title changed to <i>Multimedia and Videography II</i> Prerequisite changed to <i>GCS 382 or Consent of Instructor</i> Course description changed	3(2-2)
43.	GCS 636	Web Design for Distance Education Course number changed to GCS 480 Prerequisite changed to <i>GCS 381 or Consent of Instructor</i>	3(2-2)
44.	GCS 638	Computer Aided Design and Drafting Management Course number changed to GCS 429 Prerequisite changed to <i>GCS 428 or Consent of Instructor</i> Course description changed	3(3-0)
45.	GCS 639	Digital Architecture Course number changed to GCS 321 Prerequisite changed to <i>GCS 223</i>	3(2-2)
46.	GCS 640	Architectural Technology and Sustainable Design Course number changed to GCS 422 Prerequisite changed to <i>GCS 421 or Consent of Instructor</i>	3(2-2)
47.	GCS 641	Architectural Animation and Rendering Course number changed to GCS 322 Prerequisite changed to <i>GCS 321</i>	3(2-2)
48.	GCS 670	Web Design for E-Commerce Course number changed to GCS 386 Prerequisite changed to <i>GCS 381 or Consent of Instructor</i>	3(2-2)

COURSE DELETIONS

1.	GCS 101	Colloquim I	0(0-1)
2.	GCS 102	Colloquim II	0(0-1)
3.	GCS 203	Colloquim III	0(0-1)
4.	GCS 204	Colloquim 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)

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| 7. | OSH 426 | Terrorism and Workplace Safety | 3(3-0) |
| 8. | OSH 510 | Workplace Violence Prevention and Reaction | 3(3-0) |

COURSE CHANGES

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|-----|--------|---|--------|
| 1. | CM 100 | Orientation to Construction Management
Course title changed to <i>Computer Applications in Construction Management</i>
Credit hours changed to 3(2-2)
<i>Description changed</i> | 3(2-3) |
| 2. | CM 216 | Commercial/Industrial Construction Methods and Equipment
Title changed to <i>Construction Methods and Equipment</i>
<i>Description changed</i> | 3(2-2) |
| 3. | CM 310 | Construction Structures I
Title changed to <i>Principles of Structures</i> | 3(2-2) |
| 4. | CM 318 | Advanced Construction Estimating
Title changed to <i>Estimating Software Applications</i> | 3(2-2) |
| 5. | CM 410 | Construction Structures II
Title changed to <i>Structural Systems</i> | 3(2-2) |
| 6. | CM 412 | Mechanical and Electrical Systems in Construction
Title changed to <i>Mechanical, Electrical & Plumbing Systems in Construction</i>
<i>Description changed</i> | 3(2-2) |
| 7. | CM 497 | Industrial Experience I
Course number changed to CM 300
Prerequisite changed to CM 100, 150, 190, 215 | 1(0-3) |
| 8. | CM 498 | Industrial Experience II
Course number changed to CM 301
Prerequisite changed to CM 300
<i>Description changed</i> | 3(3-0) |
| 9. | CM 500 | Senior Seminar
Title changed to <i>Senior Capstone Project I</i>
Prerequisite changed to <i>Senior Standing, CM 320, 348, 460</i>
<i>Description changed</i> | 3(3-0) |
| 10. | CM 501 | Senior Project
Title changed to <i>Senior Capstone Project II</i>
Prerequisite changed to <i>Senior Standing, CM 500</i>
<i>Description changed</i> | 3(3-0) |
| 11. | CM 596 | Construction Financial Management and Organization
Prerequisite changed to <i>ACCT 203, BUAD 425, Senior Standing, CM Major</i>
<i>Description changed</i> | 3(2-3) |

***Department of Electrical and Computer Engineering
Presented by Dr. Lebby***

NEW COURSE

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|----|----------|--|--------|
| 1. | ECEN 547 | Introduction to Telecommunication Networks | 3(3-0) |
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COURSE CHANGES

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|----|----------|--|--------|
| 1. | ECEN 410 | Linear Control Systems
Course number changed to <i>ECEN 510</i>
<i>Description changed</i> | 3(3-0) |
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|----|----------|--|--------|
| 2. | ECEN 470 | Properties of Materials for Electrical Engineering
Course number changed to <i>ECEN 570</i>
Course title changed to <i>Properties of Materials of Electrical Engineering</i>
<i>Description changed</i> | 3(3-0) |
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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*

COURSE CHANGES

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

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|-----|----------|--|--------|
| 15. | AREN 684 | City Planning and Urban Design
Prefix changed to CIEN 684 | 3(1-4) |
|-----|----------|--|--------|

School of Nursing
Presented by Drs. Patricia Shelton and Chamings

NEW COURSES

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

Department of Energy and Environmental Studies Ph.D. Program
Presented by Dr. Bililign

CREDIT HOURS CHANGED

Credit hours for graduation changed from 52 hours to 75 hours for the new BS to PhD option.

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 AGECE 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 <i>Environmental Chemistry</i>
Credit Hours changed to 3(3-0)
<i>Description changed</i> | 3(2-2) |
| 2. | EES 720 | Theory and Practice of Alternative Energy Technologies
Title changed to <i>Sustainable Energy Systems</i>
Credit Hours changed to 3(3-0)
<i>Description changed</i> | 3(2-2) |
| 3. | EES 750 | Atmospheric Physical and Chemical Processes
Title changed to <i>Physical Meteorology</i>
Credit Hours changed to 3(3-0)
<i>Description changed</i> | 3(2-2) |
| 4. | EES 785 | Special Topics
Credit Hours changed to <i>Variable Credit 2(2-4)</i>
<i>Description changed</i> | 3(3-0) |

5.	EES 810	Theory and Practice of Energy and Environmental Economic Policy Analysis Course number changed to EES 711 Title changed to <i>Environmental & Energy Economics I</i> Prerequisite changed to <i>Graduate standing and consent of instructor</i> <i>Description changed</i>	3(3-0)
6.	EES 811	Application of Energy and Environmental Economic Policy Analysis Course number changed to EES 712 Title changed to <i>Environmental & Energy Economics II</i> Prerequisite changed to EES 711 Credit hours changed to 3(3-0) <i>Description changed</i>	3(2-2)
7.	EES 885	Doctoral Special Topics Credit hours changed to <i>Variable Credit 2(2-4)</i>	3(3-0)
8.	EES 991	Doctoral Qualifying Examination Prerequisite changed to <i>Doctoral standing and consent of instructor</i> <i>Description changed</i>	0(0-1)
9.	EES 994	Doctoral Supervised Research Credit hours changed to <i>Variable Credit 3(3-9)</i> <i>Description changed</i>	3(3-0)
10.	EES 997	Doctoral Dissertation Prerequisite changed to Prerequisite or Co-requisite: EES 995 <i>Description changed</i>	Variable Credit 3(3-9)

***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

1.	MFG 400	Technology Seminar Course number changed to MFG 300 Course prerequisite changed to <i>Sophomore Standing</i> Course credit hours changed to 2(2-0)	3(2-2)
2.	MFG 471	Metallic Material Processes Course number changed to MFG 271 Course prerequisite changed to <i>MFG 191 or consent of the instructor</i> Course credit hours changed to 3(2-2)	3(1-3)
3.	MFG 472	Numerically Controlled Machine-Tool Technology Course number changed to MFG 373 Course prerequisite changed to <i>Junior Standing</i> Course credit hours changed to 3(2-2)	3(1-3)
4.	MFG 474	Polymer Process I Course Title changed to <i>Polymer Process</i> Course number changed to MFG 274 Course prerequisite changed to <i>Sophomore standing</i> Course credit hours changed to 3(2-2) <i>Description changed</i>	3(1-3)
5.	MFG 475	Polymer Process II Course title changed to <i>Ceramic Materials</i> Course prerequisite changed to <i>Junior Standing</i> Course credit hours changed to 3(2-2) <i>Description changed</i>	3(1-3)
6.	MFG 480	Mechanical Design and Manufacturing Problems Course number changed to MFG 380 Course prerequisite changed to <i>Junior Standing</i> Course credit hours changed to 3(2-2)	3(1-3)
7.	MFG 491	Statics and Mechanics of Materials Course Title changed to <i>Statics for Technology Majors</i> Course prerequisite changed to <i>Junior Standing</i> Course credit hours changed to 3(3-0) <i>Description changed</i>	3(2-2)
8.	MFG 493	Manufacturing Planning and Management Course number changed to MFG 393 Course prerequisite changed to <i>Junior standing or consent of the instructor</i> Course credit hours changed to 3(3-0)	3(2-2)
9.	MFG 576	Manufacturing-Production and Control Course number changed to MFG 394 Course prerequisite changed to <i>Junior Standing or consent of the instructor</i> Course credit hours changed to 3(3-0)	3(2-2)
10.	MSIT 750	Internship I Course Title changed to <i>Internship</i>	3(0-6)

DELETED COURSES

1.	MFG 591	Early Manufacturing Involvement	3(2-2)
2.	MSIT 751	Internship II	3(0-6)
3.	MSIT 780	Reliability Testing and Analysis	3(3-0)
4.	MSIT 790	Research Methods	(3-0)

*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 <i>Food for Weight Management</i> Course number changed to FCS 155 <i>Description changed</i>	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 <i>CHEM 107, CHEM 117</i>	3(2-2)
8.	FCS 344	Organizational Management in Food Service Course number changed to FCS 354 Prerequisite changed to <i>FCS 150</i>	3(3-0)
9.	FCS 514	An Integrative Approach to Family and Consumer Sciences Course number changed to FCS 660 <i>Prerequisite changed to FCS 260</i> <i>Description changed</i>	3(3-0)
10.	FCS 522	Food Engineering Course number changed to FCS 542 Prerequisite changed to <i>PHYS 110, PHYS 111</i>	3(2-2)
11.	FCS 612	Senior Seminar Course title changed to <i>Applied Research in Family and Consumer Sciences</i> Course number changed to FCS 460 <i>Prerequisite changed to Junior or Senior Year</i> <i>Description changed</i>	3(3-0)

12.	FCS 630	Advanced Nutrition Course number changed to FCS 554 <i>Prerequisite changed to FCS 357, CHEM 221, CHEM 223,</i> Correquisite: CHEM 251 and CHEM 252	3(3-0)
13.	FCS 636	Food Promotion Course title changed to <i>Food Product Development</i> Course number changed to FCS 646 <i>Prerequisite changed to FCS 245, FCS 357, FCS 542, FCS 545</i> <i>Description changed</i>	4(1-6)
14.	FCS 638	Sensory Evaluation Course title changed to <i>Sensory Evaluation of Foods</i> Course number changed to FCS 647 <i>Prerequisite changed to FCS 245, FCS 357, MATH 224</i> <i>Description changed</i>	3(2-2)
15.	FCS 648	Community Nutrition Course number changed to FCS 658 <i>Prerequisite changed to FCS 654</i> <i>Description changed</i>	3(2-2)
16.	FCS 651	Food Safety and Sanitation Course number changed to FCS 443 <i>Prerequisite changed to FCS 245, BIOL 220</i> <i>Description changed</i>	3(3-0)
17.	FCS 653	Food Biotechnology Course title changed to <i>Food Microbiology and Biotechnology</i> Course number changed to FCS 644 <i>Prerequisite changed to FCS 245, BIOL 220</i> <i>Description changed</i>	3(1-4)
18.	FCS 656	Nutritional Therapy I Course number changed to FCS 656 <i>Prerequisite changed to FCS 554, CHEM 251 and CHEM 252</i>	4(4-0)
19.	FCS 657	Nutritional Therapy II Course number changed to FCS 657	4(4-0)

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

COURSE CHANGES

1.	MATH 101	Fundamentals of Algebra and Trigonometry I Prerequisite changed to <i>None</i>	3(3-0)
2.	MATH 110	Pre-Calculus for Engineers and Scientists Prerequisite changed to <i>None</i>	4(4-0)
3.	MATH 111	College Algebra and Trigonometry Prerequisite changed to <i>None</i>	4(4-0)
4.	MATH 123	Discrete Mathematics I Prerequisite changed to <i>None</i>	3(3-0)
5.	MATH 131	Calculus I Prerequisite changed to <i>None</i>	4(4-0)
6.	MATH 224	Introduction to Probability and Statistics Prerequisite changed to <i>MATH 101 or MATH 110 or MATH 111 or MATH 131</i>	3(3-0)
7.	MATH 432	Introduction to Applied Mathematics (Formerly MATH 332) Prerequisite changed to <i>MATH 231 and MATH 431</i>	3(3-0)
8.	MATH 440	Numerical Methods Prerequisite changed to <i>MATH 132 and GEEN 160 or GEEN 161 or GEEN 163 or MATH 240</i>	3(3-0)

9.	MATH 511	Abstract Algebra I Prerequisite changed to <i>MATH 231 and MATH 311</i>	3(3-0)
10.	MATH 604	Modern Geometry for Secondary School Teachers Prerequisite changed to <i>MATH 600 or consent of instructor</i>	3(3-0)
11.	MATH 607	Theory of Numbers Prerequisite changed to <i>MATH 511 or consent of instructor</i>	3(3-0)
12.	MATH 610	Complex Variables I Course title changed to <i>Complex Variables</i> Prerequisite changed to <i>MATH 431 or consent of instructor</i>	3(3-0)
13.	MATH 620	Elements of Set Theory and Topology Prerequisite changed to <i>MATH 603 or MATH 507 or Consent of instructor</i>	3(3-0)
14.	MATH 631	Linear and Non-Linear Programming Prerequisite changed to <i>MATH 450 and GEEN 160 or GEEN 163 or consent of instructor</i>	3(3-0)
15.	MATH 651	Partial Differential Equations Prerequisite changed to <i>MATH 432 or consent of instructor</i>	3(3-0)
16.	MATH 652	Methods of Applied Mathematics Prerequisite changed to <i>MATH 431 or consent of instructor</i>	3(3-0)
17.	MATH 675	Graph Theory Prerequisite changed to <i>MATH 450 and MATH 223 or MATH 311 or consent of instructor</i>	3(3-0)
18.	MATH 692	Independent Study Prerequisite changed to <i>Permission of the instructor</i>	3(3-0)

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

