Engineering and Technology
Curriculum Subcommittee
Minutes (April 18th, 2013)

Subcommittee Chair: Betsy Dobbs-McAuliffe (Biomolecular Sciences)
Members present:

B. Dobbs-McAuliffe (Biomolecular Sciences), Xiabing Hou (Computer Electronics and Graphics Technology), Thomas Vasko (Engineering), Haoyu Wang (Manufacturing and Construction Management), James DeLaura (Technology and Engineering Education), Mark Jackson (Curriculum Committee Chair)

Visitors:

Jacob Kovel (Manufacturing and Construction Management)
Beth Merenstein (Sociology)

Meeting Called to Order at 12:31 pm by B. Dobbs-McAuliffe

Minutes from the March 14, 1013 meeting (**approved**)

I. Old Business

Manufacturing and Construction Management
C4.1 Program Addition BS Manufacturing Management (**approved**)

II. New Business

Biology
3.1 Program Revision *Minor in Science* (**approved**)

Computer Electronics and Graphics Technology
Items 5.1 – 5.17 **approved** as a package

5.1 Course revision *CET 201 Photonics Principles*
5.2 Course revision *CET 223 Basic Electrical Circuits*
Edit: add a comma after power. "Operation of DC circuits including voltage, current, resistance, power**,** electromagnetism, capacitance, inductance, and basic theorems."
5.3 Course revision *CET 229 Computer Hardware Architecture*
5.4 Course revision *CET 233 Advanced Electrical Circuits*
5.6 Course revision *CET 236 Circuit Analysis*
5.7 Course revision *CET 243 Analog Electronics I*
Edits: remove comma after characteristics and colon after experiments. "Semiconductor and the p-n junction theory. Structure, parameters, performance characteristics of diodes, bipolar and field effect transistors, operational amplifiers

and special semiconductor devices. Basic circuit analysis, synthesis, and laboratory experiments emphasize building circuits, troubleshooting, and using instruments to measure quantities, and observe phenomena. Two hours lecture and three hours laboratory per week."

5.8 Course revision *CET 301 Fiber-Optics Communications*

5.9 Course revision *CET 323 Analog Electronics II*

5.10 Course revision *CET 339 Computer System Administration*

5.11 Course revision *CET 346 Signals & Systems*

5.12 Course revision *CET 363 Digital Circuits*

5.13 Course revision *CET 405 Applied Topics in Computer Electronics Technology*

5.14 Course revision *CET 453 Microcomputers*

5.15 Course revision *CET 443 Electronic Communications*

5.16 Course revision *CET 449 Advanced Networking*
Should be 3 credits, not 4.

5.17 Course revision *CET 466 Logic Design*

5.18 Course Addition CET 463 *Advanced Microcomputers* (**approved**)

Items 5.19-5.23 **approved** as a package

5.19 Course revision *GRT 212 Graphic Arts Processes*

5.20 Course revision *GRT 232 Introduction to 3D Animation Technology*

5.21 Course revision *GRT 342 Screen & Specialty Printing Manufacturing*

5.22 Course revision *GRT 352 Color Management & Analysis*

5.23 Course revision *GRT 405 Applied Topics in Graphics Technology*

Items 5.24 and 5.25 **approved** as a package

5.24 Course deletion *GRT 411 Instructional Methods in Animation Graphics*

5.25 Course deletion *GRT 412 Instructional Methods in Computer-Aided Publishing*

Items 5.26-5.28 **approved** as a package

5.26 Course revision *GRT 442 Print Production*

5.27 Course revision *GRT 462 Advanced Graphic Arts Techniques*

5.28 Course revision *GRT 472 Digital & Film Photography*

Item 5.29 *Program revision Major in Electronics Technology , BS (122 credits)* (**approved**)

Directed electives should be 14, total credits in the major are 63
Title of CET 463 is Advanced Microcomputers

Item 5.30 *Program revision Major in Computer Engineering Technology, BS* (124 credits) (**approved**)

Directed electives should be 8
Remove the I, from General Chemistry (CHEM 161)
Remove ET 241 / ET 399
Keep ET 251 / ET359

Engineering

Items 9.1, 9.2, 9.4, 9.6, 9.7, 9.10, 9.11, 9.13 **approved** as a package

9.1 Course Revision *CE 471 Reinforced Concrete Design*
9.2 Course Revision *CE 497 CE Professional Practice and Senior Project Research*
9.4 Course Addition *CE 222 CAD Applications in Civil Engineering*
9.6 Course Revision *CE 397 Structural Analysis*
9.7 Course Addition *CE 402 Inquiry and Research in Civil Engineering*
9.10 Course Revision *CE 451 Soil Mechanics & Foundations*
9.11 Course Addition *CE 452 Foundation Engineering*
9.13 Course Revision *CE 458 GPS Mapping for GIS*

9.3 Course Revision ENGR 240 Spreadsheet and Engineering Problem Solving Tools (**postponed**)
No representative at Arts and Sciences subcommittee meeting

9.5 Course Addition C*E 301 CE Fundamental Computations* (**approved**)
Change prerequisites to ENGR 240, ENGR 251, ME 258

9.8 Course Addition *CE 407 Structural Analysis II*
Change prerequisites to CE 301 (C- or higher), and CE 397 (C- or higher). (**approved**)

9.12 Course Revision CE 454 Introduction to Transportation Engineering (**approved**)
Change prerequisites to CE 253 (May be taken concurrently)

Items 9.14-9.16 **approved** as a package

9.14 Course Revision *ME 485 Introduction to Combustion*
9.15 Course Addition *ME 487 Flight Dynamics*
9.16 Course Addition *ME 488 Aerospace Vehicle Design*

9.17 Program Revision *Civil Engineering* (**approved)**

9.18 Program Addition Aerospace Engineering Minor (**withdrawn**)

Manufacturing and Construction Management

11.1 Course Revision *CM 500 Fundamentals of Construction Management* (**approved**)

11.2 Course Deletion *EMEC 114 Introduction to Energy Processing* (**approved**)

11.3 Course Revision *MFG 118 Introduction to Materials* (**approved**)

11.4 Program Revision *Major in Construction Management* BS (**approved**)
Under core requirements: CM 485 is now Construction Management Senior Lab
Under other required electives: remove ENG 403

11.5 Program Revision Major in Industrial Technology, BS (63 credits) (**approved**)

Technology and Engineering Education

Items 17.1-17.10 **approved** as a package
17.1 Course Revision *TE 215 Materials Processing*
17.2 Course Revision *TE 217 Laboratory Practices*
17.3 Course Revision *TE 218 Electrical Applications for STEM*
17.4 Course Revision *TE 221 Innovation & Invention*
17.5 Course Revision *TE 245 Building Design & Construction*
17.6 Course Revision *TE 310 Communication Systems 3 credits*
17.7 Course Revision *TE 330 Transportation Design*
17.9 Course Revision *TE 417 Robot Design &* Construction
17.10 Course Revision *TE 498 Technology & Engineering Education Senior Design Project*

17.11 Program Revision *Major in Technology and Engineering Education (K-12), BS (130 credits)*
(**approved**)

Meeting adjourned at 2:00 pm.

Respectfully Submitted,
Betsy Dobbs-McAuliffe (Biomolecular Sciences)