

TO: All Members, University Curriculum Committee; Department Chairs  
FROM: Mark Jackson, Chair, University Curriculum Committee  
832-2650; [jacksonmae@ccsu.edu](mailto:jacksonmae@ccsu.edu)  
SUBJ: Consent Agenda for 4th Round of Curriculum Meetings (3/6/2013)

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**A. Approve minutes of previous meetings**

**B. Announcements**

- I. Welcome new members from the new Department of Journalism!
  - a. Mary D'Ambrosio is the new representative on the Curriculum Committee. Tony Cannella will serve as alternate.
- II. There is a new version of the shadow catalog. The link is here: <http://www.ccsu.edu/page.cfm?p=14778> .The password is newcat123
- III. Compressed schedule next month due to spring break
  - a. Next submission deadline: Friday March 8 (noon)
  - b. Business and A&S Subcommittees: March 13 (note this is one week earlier than normal)
  - c. SET: March 14
  - d. Grad Studies Curriculum: March 14
  - e. SEPS: March 19
  - f. Gen Ed: March 20
  - g. Grad Studies: March 21
  - h. Full meeting April 3
- IV. Minor Changes from Engineering
  - a. (Note: this item is contingent on approval of item 7.1) The minor change is to change the prerequisite from ENGR 257 to the new number of ENGR 357 for the following courses: CE 397, CE 451, ME 367, ME 370, ETM 467, and ME 486
- V. Minor Changes in Earth Sciences

- a. Replace the phrase "No credit given to **Earth Science majors** with credit for \_\_\_\_" with "No credit given to **students** with credit for \_\_\_\_" in the following courses
- i. ESCI 121, "No credit given to students with credit for 131"
  - ii. ESCI 131, "No credit given to students with credit for 121"
  - iii. ESCI 125, "No credit given to students with credit for 135"
  - iv. ESCI 135, "No credit given to students with credit for 125"

**C. Items Postponed:**

<b>Geography</b>		
<b>8.1</b>	<b>Course Revision</b> <a href="#">GEOG 578 Internet GIS and Mapping</a>  Revise to:  GEOG 578 Advanced GIS and Mapping 3  Prereqs Planned program of study in MS or Permission of instructor. Advanced study of principles and practices of GIS and Mapping. F(O)  <i>Approved in AS</i>  <i>No representative in GS, postponed</i>	<b>AS</b>  <b>GR</b>
<b>Gerontology</b>		
<b>9.3</b>	<b>Program Revision</b> <a href="#">Minor in Gerontology</a>  <i>Postponed in AS</i>  <i>Needs to go to SEPS</i>	<b>AS</b>  <b>SEPS</b>
<b>Manufacturing and Construction Management</b>		
<b>10.10</b>	<b>Course Revision</b> <a href="#">TM 190 Introduction to Quality Assurance</a>	<b>SET</b>

	<p>Revise to:</p> <p>TM 190 Global Quality Management Systems 3</p> <p>Overview of the influence of the Japanese Lean Management system and the International Organization for Standardization (ISO) have had on contemporary quality management systems. Topics include Six Sigma, team building, change management, problem solving, and continuous improvement. Study Area III [I]</p> <p>Approved at SET</p> <p>Representative not present at GE, postponed</p>	GE
10.13	<p><b>Course Revision</b> <a href="#">TM 456 HAZWHOPPER &amp; Hazardous Material Management</a></p> <p>Revise to: TM 456 Hazardous Material Management 3</p> <p>Study of environmental regulations and their impact on industrial operations. Emphasis is on application of statutes, regulations and information sources concerning hazardous materials, waste handling and technical decisions pertinent to environmental and safety issues. Spring(O) (GR)</p> <p>Approved at SET</p> <p>No representative in GR, postponed</p>	SET GR
10.4	<p><b>Course Revision</b> <a href="#">MFG 216 Manufacturing Processes</a> 3</p> <p>Revise to:</p> <p>MM 216</p> <p>Change prereqs to TM 120 or ENGR 150, or permission of instructor</p> <p>Item withdrawn and will be revised at request of department</p>	SET
10.5	<p><b>Course Revision</b> <a href="#">MFG 226 Principles of Computer Numerical Control</a> 3</p> <p>Revise to:</p> <p>MM 226 Principles of Computer Numerical Control (CNC)</p> <p>Change prereqs to MM 121 or ETM 260 or permission of instructor</p>	SET

	Item withdrawn and will be revised at request of department	
10.6	<p><b>Course Revision</b> <a href="#">MFG 236 Tool Design</a> 3</p> <p>Revise to:</p> <p>MM 236</p> <p>Change prereqs to MM 121 or permission of instructor</p> <p>Item withdrawn and will be revised at request of department</p>	SET
10.7	<p><b>Course Revision</b> <a href="#">EMEC 324 Fluid Power Systems</a></p> <p>Revise to:</p> <p>MM 324</p> <p>Item withdrawn and will be revised at request of department</p>	SET
10.14	<p><b>Program Addition</b> BS Manufacturing Management</p> <p><b>BS – Manufacturing Management (NEW)</b></p> <p>Major Requirements (45 credits)</p> <ul style="list-style-type: none"> <li>CET 113 Intro to Info Processing</li> <li>TM 120 Intro to Technology Mgt</li> <li>TM 121 Mechanical CAD</li> <li>TM 190 Global Quality Mgmt Systems</li> <li>MM 216 Manufacturing Processes</li> <li>AC 210 Industrial Accounting</li> <li>MGT 295 Fundamentals of Management</li> <li>MKT 295 Fundamentals of Marketing</li> <li>TM 310 EH&amp;S</li> <li>MM 360 Production Systems</li> <li>TM 362 Leading Project Teams</li> <li>MM 366 Supply Chain and Purchasing Strategies</li> <li>TM 401 Senior Seminar and Internship</li> <li>TM 464 Six Sigma Quality</li> <li>MM 390 Lean Operations Management</li> </ul> <p><b>Directed Electives (w/advisor) (12 credits)</b></p> <p><b>Electives (12 credits)</b></p> <ul style="list-style-type: none"> <li>MM 226 Principles of CNC</li> <li>MM 236 Tool Design</li> <li>MM 324 Fluid Power</li> <li>TM 480 Robotics</li> </ul>	SET

	<p>or</p> <p>CM 335 Construction Safety</p> <p>TM 411 Industrial Hygiene</p> <p>TM 414 Accident Investigation</p> <p>TM 456 Hazardous Material Management</p> <p><b>General Education</b></p> <p>Study Area I - Arts and Humanities (9)</p> <p style="padding-left: 40px;">Literature      3</p> <p style="padding-left: 80px;">3</p> <p style="padding-left: 80px;">3</p> <p>Study Area II - Social Sciences (9)</p> <p style="padding-left: 40px;">ECON 201      3</p> <p style="padding-left: 40px;">Historical      3</p> <p style="padding-left: 80px;">3</p> <p>Study Area III - Behavioral Sciences (6)</p> <p style="padding-left: 40px;">PSY 112 **      3</p> <p style="padding-left: 80px;">3</p> <p>Study Area IV - Natural Scientific (6)</p> <p style="padding-left: 40px;">PHYS 111 w/lab 3</p> <p style="padding-left: 40px;">CHEM 161/162 w/lab    3</p> <p>Skill Area I - Communication Skills (6)</p> <p style="padding-left: 40px;">ENG 110*      3</p> <p style="padding-left: 40px;">ENGR 290      3</p> <p>Skill Area II - Mathematical (6)</p> <p style="padding-left: 40px;">STAT 104 *      3</p> <p style="padding-left: 40px;">Math 115      3</p> <p>Skill Area III Foreign Language</p> <p>Skill Area IV Univ Requirement 2-3</p>	
<b>Teachers Education</b>		
<b>13.5</b>	<p><b>Course Revision</b> <a href="#">EDTE 314 Applied Learning Theories (K-12 Programs)</a></p> <p>Revise to:</p> <p>Change title to: Applying Learning Theories in Inclusive Settings (K-12 Programs)</p> <p>Change description to: 20 hours of field experience in assigned settings required. Examination of educational theory and research related to K-12 practices, learning communities, and learners' developmental needs that</p>	<b>SEPS</b>

	promote equity. The course emphasizes elementary level teaching.	
<b>Theatre</b>		
<b>15.6</b>	<b>Program revision</b> <a href="#">Major in Theatre, B.F.A.</a>  Amended in A&S: TH 347 moved back to core courses, making core 30 credits.  Dance courses need to be signed off by Phys Ed and it needs to go to SEPS	<b>AS</b>

#### **D. Old Business**

<b>Physical Education</b>		
<b>C1.1</b>	<b>Program Revision</b> <a href="#">Major in Physical Education, B.S. Ed.</a>  No representative was present at the previous AS subcommittee  Approved at SEPS	<b>AS</b>
<b>C1.2</b>	<b>Course Addition</b> <a href="#">PE 150 Fitness/Wellness for Educators</a>  Waiting of SEPS deans signature	<b>AS</b>
<b>Special Education</b>		
<b>C2.1</b>	Course Revision <a href="#">SPED 315 Introduction to Educating Learners with Exceptionalities</a>  Add d-designation for Foshay	<b>GE</b>

#### **E. Consent Agenda:**

<b>Biology</b>		
<b>1.1</b>	<p>Course Revision <a href="#">Bio 230 Natural History</a> 2</p> <p><i>Change credits from 2 to 3</i></p> <p><i>revise description</i> as follows:</p> <p>BIO 121; or BIO 132 and 133; or BIO/BMS 111 and 113 Consideration of local wild species and their natural history traits, habitats, range, and evolutionary history. Two hours of lecture and one two-hour outdoor laboratory meeting per week. Fall. Study Area IV</p>	<b>AS GE</b>
<b>1.2</b>	<p>Course Revision <a href="#">BIO 425 Aquatic Biology</a> 4</p> <p><i>Change title and description to the following:</i></p> <p>Bio 425 Biology of Marine and Freshwater Algae 4</p> <p>BIO 200 and BIO 290, or permission of department chair. Ecology and classification of micro- and macroalgae from marine, estuarine, and freshwater environments. Laboratories and field trips include collection and identification of algae from Connecticut aquatic habitats. Three hours of lecture and one three-hour laboratory per week. Some Saturday field trips required.[GR]</p>	<b>AS GR</b>
<b>1.3</b>	<p><b>Program Revision</b> <a href="#">Major in Biology, B.S. (Non-Teaching)</a></p> <p><i>Revise as listed in link</i></p>	<b>AS</b>
<b>1.4</b>	<p><b>Program Revision</b> <a href="#">Major in Biology, B.S. (Certifiable for teaching grades 7-12)</a></p> <p><i>Revise as listed in link</i></p>	<b>AS SEPS</b>
<b>1.5</b>	<p><b>Program Deletion</b> <a href="#">Major in General Science with Specialization in Environmental Interpretation, BS</a></p>	<b>AS</b>
<b>Chemistry</b>		

2.1	<b>Course Revision</b> <a href="#">CHEM 456 Toxicology 3</a> <b><i>Change prereqs from chem 212 to chem 210</i></b>	<b>AS</b>  <b>GR</b>
2.2	<b>Program revision</b> <a href="#">Minor in Chemistry (Non-Teaching)</a> Change description to: 18 Credits in Chemistry, excluding CHEM 100	<b>AS</b>
<b>Computer Electronics/Graphics Tech</b>		
3.1	<b>Course Revision</b> <a href="#">GRT 242 Introduction to Graphic Design &amp; Color 3</a> Revise course as follows: GRT 242 Digital Color Cross-Media Workflow Prereqs GRT 112 or 212 or permission of instructor. Introduction to the use of graphics elements and color. Topics include production design for brochures, packaging, and web; includes theory and practice of process color printing. Two hours lecture and two hours laboratory, course meets four hours per week. Fall	<b>SET</b>
3.2	<b>Course Addition</b> <a href="#">GRT 422 Print Distribution Management 3</a> Prereqs: GRT 362. Industry workflow systems and processes used to distribute and deliver the print and media related products. Logistical shipping methods, such as United States Postal Service (USPS), parcel delivery, shipping, warehousing and fulfillment operations in order to successfully deliver the products to end users. Two hour lecture and two hour laboratory, course meets four hours per week.	<b>SET</b>
3.3	<b>Course Addition</b> <a href="#">CET 439 Enterprise Messaging Systems 3</a> Prereqs: CET 339. Laboratory course emphasizing knowledge and skills related to enterprise-level messaging environment. Topics include concepts, guidelines, protocols, best practices, and considerations when implementing, managing, and optimizing the messaging server deployment. Two hour lecture and two hour laboratory, course meets four hours per week.	<b>SET</b>



<b>Communication</b>		
<b>4.1</b>	<b>Course Addition</b> <a href="#">COMM 227 Introduction to Television Production</a> 3  Introduce students to the terminology and workings of visual communication and broadcasting. Become acquainted with the structures and organization of TV stations and production houses. Practice basic hands-on production and storytelling and work across different media platforms. Learn about new trends in social media, run a youtube site and contribute to blogs.	<b>AS</b>
<b>4.2</b>	<b>Course Addition</b> <a href="#">COMM 327 TV Production</a> 3  Prereqs: COMM 227 (C- or higher). This course offers an introduction to field studio production. Foundations of television production (use of equipment, lighting, audio, scripting, new media, pre-production, production and post-production editing).	<b>AS</b>
<b>4.3</b>	<b>Course Addition</b> <a href="#">COMM 228 Introduction to Digital Film Production</a> 3  This course introduces students to filmmaking processes, techniques and technologies as powerful and creative tools for communication. Image creation, audio acquisition and post-production practices, conceive and investigate ideas, engage in a creative/critical process and utilize new media technologies to construct simple messages. Hands-on workshops, viewing of films and creating media.	<b>AS</b>
<b>4.4</b>	<b>Course Addition</b> <a href="#">COMM 328 Digital Film Production 1</a> 3  Prereqs: COMM 228 (C- or higher) Expands and explores the creation of ideas, characters and conflicts through the production process. Students advance their methods of visual coverage, engage in audio acquisition, while also testing and developing their ideas through the pre-production, production and post production process. This course is geared for those interested in documentary production, Independent filmmaking and/or commercial advertising.	<b>AS</b>
<b>4.5</b>	<b>Course Addition</b> <a href="#">COMM 487 TV Documentary</a> 3  COMM 327 (C- or higher) Building upon a broad overview of the history of	<b>AS</b>

	television documentary, both in the United States and overseas, the projects in the course are production centered: two mini documentaries will be produced by individuals in the class. Students are asked to also analyze chosen documentary examples to develop a deeper understanding of the subject matter.	
<b>4.6</b>	<b>Course Addition</b> <a href="#">COMM 488 Film Documentary</a> 3  COMM 428 (C- or higher) Course is an advanced level production class in which students create an original, individually conceived documentary video. Project development, production, and editing techniques that are specific to documentary. Students learn advanced techniques of shooting and editing, audio and microphone techniques, field lighting, interviewing techniques, and documentary story structure. Students also learn how to develop voice and point-of-view as well as understand how to work within the various documentary genres.	<b>AS</b>
<b>4.7</b>	<b>Course Deletion</b> <a href="#">COMM 330 Digital Film and Television Production I</a> 3	<b>AS</b>
<b>4.8</b>	<b>Course Deletion</b> <a href="#">COMM 480 Television Documentary Production</a> 3	<b>AS</b>
<b>4.9</b>	<b>Course Revision</b> <a href="#">COMM 427 Digital Film and Television Production II</a>  Revise course to the following:  COMM 427 Studio Production 3  Prereqs: COMM 327 (C- or higher) This studio-based course enhances production skills in both the field and studio. Emphasis on story conception, development and scripting. Enhance skills in cinematography, directing, lighting design, non-linear editing and audio acquisition in such genres as news, graphics, animation and other aspects of live television.	<b>AS</b>
<b>4.10</b>	<b>Course Revision</b> <a href="#">COMM 428 Digital Film and Television Production III</a>  Revise course to the following:  Digital Film Production II 3  Prereqs: COMM 328 (C- or higher). Advance and diversify storytelling techniques, filmmaking skills and methods of collaboration through field production and scripted recreation. Confronting and overcoming	<b>AS</b>

	<p>complicated issues and obstacles of live production, while also incorporating aspects of directed work, develops a filmmakers technical, aesthetic and critical abilities within both documentary and fictional filmmaking. Students cast, collaborate, explore, interview and direct truthful, thematically relevant and visually rich recreations. This work also includes aspects of sound design, style and ethical issues related to interpretation.</p>	
4.11	<p><b>Program Revision</b> <a href="#">Major in Communication, B.A.</a></p> <p><i>Revise as listed in link</i></p> <p>Modify proposed description as follows (<i>in italics</i>):</p> <p>39 credits in the department and related courses, <i>including core requirements (12 credits), one track (9 or 12 credits), directed electives (18 or 15 credits).</i></p> <p><i>18 credits, of which at least 6 credits must be from a list of selected media production and performance courses.</i></p>	AS
<b>Criminology and Criminal Justice</b>		
5.1	<p><b>Course Addition</b> <a href="#">CRM 407 Gangs in America</a> 3</p> <p>Prereqs: CRM 322 (C- or better) Introduces the topic and study of gangs in the United States. Provides students with a historical perspective as well as identifying some of the challenges in defining and understanding gangs. Examines theories on gang membership, types of gangs, as well as causes of gang formation. Reviews research on law enforcement tactics, prevention programs, and intervention strategies for reducing gang activity.</p>	AS
5.2	<p><b>Program Revision</b> <a href="#">Major in Criminology, B.A.</a></p> <p>Add CRM 435 Supervised Field Studies 3</p> <p>Modify proposed description:</p> <p>3 credits of a 200-level CRM elective; 9 credits of 300-level electives; <i>6 credits of 400-level CRM electives</i></p>	AS

English		
6.1	<b>Course Addition</b> <a href="#">ENG 330 Old English Language and Literature</a> 3  Prereqs: ENG 298. In this course, students learn Old English in order to translate and discuss basic Old English texts.	AS
6.2	<b>Course Revision</b> <a href="#">ENG 332 Medieval English Literature</a> 3  Revise course to:  ENG 452 Medieval English Literature 3  Prereqs: ENG 398, or Admission to English MA program, or permission of instructor for non-majors.  Old English and Middle English literature, exclusive of Chaucer's Canterbury Tales, from the eighth through the 14th centuries. Most material read in translation. (GR)	AS GR
6.3	<b>Course Revision</b> ENG 450 Chaucer  Revise to:  ENG 331 Chaucer's Canterbury Tales 3  Prereqs: ENG 298. Chaucer's Canterbury Tales in Middle English  <i>Note: Removing Graduate credit</i>	AS GR
Engineering		
7.0	<b>Course Revision</b> <a href="#">ET 251 Applied Mechanics I - Statics</a>  Change prereqs to ENGR 150 or ROBO 110; and PHYS 121 or PHYS 125; and MATH 136 may be taken concurrently) or MATH 152	SET
7.1	<b>Course Revision</b> <a href="#">ENGR 257 Mechanics of Materials</a> 3  Revise to: ENGR 357 Mechanics of Materials 3	SET

	<p>Prereqs: ENGR 251 (C- or higher) The analysis of simple and combined stress, torsion, flexure, and deflection of beams, continuous and restrained beams, combines axial and bending loads, and columns.</p>	
<b>7.2</b>	<p><b>Course Addition</b> <a href="#">ENGR 392 Engineering Practicum (400 hours)</a> 1</p> <p><i>NOTE: Change prereq to ENGR 357 contingent on approval of 7.1</i></p> <p>Prereqs: ENGR 257 This course provides students the opportunity to apply engineering principles, theory, and problem solving procedures in industry to gain practical engineering experience. Irregular</p>	<b>SET</b>
<b>7.3</b>	<p><b>Course Addition</b> <a href="#">ME 368 Machine Design II</a> 3</p> <p>Prereqs: ME 367 (C- or higher) and ENGR 252 (C- or higher)</p> <p>Analysis for the design of basic mechanical elements, and their role in the design of machines, design of fasteners and joints, welds, springs, bearings, gear, clutches, brakes and power transmissions. Fall</p>	<b>SET</b>
<b>7.4</b>	<p><b>Course Revision</b> <a href="#">ME 367 Machine Design</a></p> <p>Revise to:</p> <p>ME 367 Machine Design I 3</p> <p>Prereqs ENGR 257 (C- or higher)</p> <p>Analysis for the design of basic mechanical elements, and their role in the design of machines, theories of failure, fatigue design, design of rotating shafts, and analysis of variable loading. Spring</p>	<b>SET</b>
<b>7.5</b>	<p><b>Course Revision</b> <a href="#">ME 403 Control of Dynamic Systems</a></p> <p>Revise to:</p> <p>ME 403 Control of Dynamic Systems 3</p> <p>Prereqs: ME 352 (C- or higher)</p> <p>Topics include lumped physical system models; electrical, fluid, mechanical, and thermal system analysis; linear system transient, steady-state behavior; analysis and design of feedback control systems; transfer functions; block</p>	<b>SET</b>

	diagrams; proportional, rate, and integral controllers; and hardware and implementation. Two hours lecture and two hours laboratory, course meets four hours per week.	
<b>7.6</b>	<b>Course Revision</b> <a href="#">ME 459 Energy Conversion Systems</a> Revise to: Change prereqs to ME 258 (C- or higher)	<b>SET</b>
<b>7.7</b>	<b>Course Revision</b> <a href="#">ME 483 Aerodynamics</a> Revise to: change prereqs to MATH 222 and ME 480 (C- or higher)	<b>SET</b>
<b>7.8</b>	<b>Course Revision</b> <a href="#">ME 497 Senior Project I: Project Research</a> Revise to: change prereqs to ME 367 (C- or higher)	<b>SET</b>
<b>7.9</b>	<b>Program Revision</b> <a href="#">Major in Mechanical Engineering, BS</a> Revise to:  Remove Chem 163/164  Add ME 368 Machine Design II  Add Engr 392 Field Practicum	<b>SET</b>
<b>Gerontology</b>		
<b>9.1</b>	<b>Course Addition</b> <a href="#">GERO 101 Introduction to Gerontology</a> 3  Introduction to the interdisciplinary study of gerontology and the implications of aging in our society. Includes a review of social, psychological, economic, cultural, health, and policy issues. Discussion of normal vs. abnormal (disease-related) aspects of aging. Irregular. Study Area III	<b>AS</b>  <b>GE</b>
<b>9.2</b>	<b>Course Addition</b> <a href="#">GERO 498 Special Topics in Gerontology</a> 3  Prereqs: GERO 101 or permission of instructor. Analysis and evaluation of special topics in the field of gerontology. Topics announced each semester.	<b>AS</b>

	May be repeated with different topics for a total of 6 credits. Irregular	
<b>Manufacturing and Construction Management</b>		
<b>10.1</b>	<b>Course Deletion</b> <a href="#">MFG 321 Computer-Aided Drafting</a>	<b>SET</b>
	<b>Course Deletion</b> <a href="#">TM 359 Plant Layout</a>	<b>SET</b>
<b>10.2</b>	<b>Course Addition</b> <a href="#">TM 120 Introduction to Technology Management</a> 3  Current trends in technology management including innovation, technology systems, sustainable energy, materials, and historical perspectives. Fall	<b>SET</b>
<b>10.3</b>	<b>Course Revision</b> <a href="#">MFG 121 Technical Drafting &amp; CAD</a> 3  Revise to:  MM 121 Mechanical CAD 3  Introduction to geometric construction, 3D modeling, orthographic projection, sectional and auxiliary views, dimensioning/tolerancing, and pictorials. Emphasis on the use of CAD for mechanical and manufacturing sectors. Two hours lecture and two hours laboratory per week.	<b>SET</b>
<b>10.8</b>	<b>Course Revision</b> <a href="#">MFG 366 Manufacturing Supply Chain Strategy</a>  Revise to:  MM 366 Supply Chain and Purchasing Strategies	<b>SET</b>

10.9	<p><b>Course Revision</b> <a href="#">MFG 496 Lean Manufacturing</a></p> <p>Revise to:</p> <p>MM 390 Lean Operation Management</p> <p>Principles of lean manufacturing methodologies applied to operations management. Topics include 5S, production flow analysis, value stream mapping, pull systems, cellular manufacturing, waste elimination, visual factory, error proofing, quick changeover, change management.Spring</p>	SET
10.11	<p><b>Course Revision</b> <a href="#">TM 362 Leadership Skills for Supervisors</a></p> <p>Revise to:</p> <p>TM 362 Leading Project Teams 3</p> <p>Applying leadership principles to contemporary work situations through creative class participation in industrial case studies. Techniques of leading project teams, including initiating, planning, scheduling and closing projects, motivation, delegation, discipline, teamwork, decision making, communications. Meets two hours lecture and two hours lab per week.</p>	SET
10.12	<p><b>Course Revision</b> <a href="#">TM 310 Industrial Safety</a></p> <p>Revise to:</p> <p>TM 310 Environment, Health and Safety (EH&amp;S) 3</p> <p>Overview of environment, health and safety issues including: improving employee health and safety, reducing hazards, hazardous waste and air emissions, and reducing the environmental impact of the production facility. Emphasis on sustainability, OSHA, EPA, and ISO 14000 standards and regulations.</p>	SET



10.15	<p><b>Program Revision</b> BS Robotics and Mechatronics Engineering Technology</p> <table border="1"> <thead> <tr> <th colspan="2">Major Requirements (42 Credits)</th> <th>Crs</th> </tr> </thead> <tbody> <tr><td>ROBO110</td><td>Introduction to Robotics and Mechatronics</td><td>3</td></tr> <tr><td>ROBO220</td><td>Parametric Modeling and Simulation</td><td>3</td></tr> <tr><td>ROBO240</td><td>Electro-Mechanical Converters and Drivers</td><td>3</td></tr> <tr><td><b>ROBO260</b></td><td><b>Programmable Controllers</b></td><td><b>3</b></td></tr> <tr><td>ROBO310</td><td>Data Acquisition &amp; Processing</td><td>3</td></tr> <tr><td>ROBO330</td><td>Fluid Power Systems</td><td>3</td></tr> <tr><td>ROBO350</td><td>Applied Control Systems I</td><td>3</td></tr> <tr><td>ROBO370</td><td>Mechanisms for Automation</td><td>3</td></tr> <tr><td>ROBO380</td><td>Mechatronics</td><td>3</td></tr> <tr><td>ROBO460</td><td>Applied Control Systems II</td><td>3</td></tr> <tr><td>ROBO470</td><td>Robotics Systems Engineering and Analysis</td><td>3</td></tr> <tr><td>ROBO480</td><td>Industrial Robotics</td><td>3</td></tr> <tr><td>ROBO496</td><td>Industrial Internship</td><td>3</td></tr> <tr><td>ROBO497</td><td>Capstone: Senior Project</td><td>3</td></tr> <tr> <td></td><td><b>Total</b></td><td><b>42</b></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Additional Requirements (39 Credits)</th> <th>Crs</th> </tr> </thead> <tbody> <tr><td>CET236</td><td>Circuits Analysis</td><td>3</td></tr> <tr><td><b>CET 243</b></td><td><b>Analog I</b></td><td><b>3</b></td></tr> <tr><td>CET363</td><td>Digital Circuits</td><td>3</td></tr> <tr><td>CET453</td><td>Microprocessors</td><td>3</td></tr> <tr><td>ET251</td><td>Applied Mechanics I - Statics</td><td>3</td></tr> <tr><td>ET252</td><td>Applied Mechanics II - Dynamics</td><td>3</td></tr> <tr><td>ET357</td><td>Strength of Materials</td><td>3</td></tr> <tr><td>ETM358</td><td>Applied Thermodynamics</td><td>3</td></tr> <tr><td>MATH221</td><td>Calc II</td><td>4</td></tr> <tr><td><b>MATH226/ MATH 228</b></td><td><b>Linear Algebra and Probability for Engineers/ Introduction to Linear Algebra</b></td><td><b>4</b></td></tr> <tr><td>MATH355</td><td>Introduction to Differential Equations</td><td>4</td></tr> <tr><td>MFG216</td><td>Manufacturing Processes</td><td>3</td></tr> <tr> <td></td><td><b>Total</b></td><td><b>39</b></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Free Electives (1-7 Credits)</th> <th>Crs</th> </tr> </thead> <tbody> <tr><td></td><td>FREE ELECTIVES</td><td></td></tr> <tr> <td></td><td><b>Total</b></td><td><b>Upto 7</b></td></tr> </tbody> </table> <p>Delete: ET 354: Applied Fluid Mechanics, 3 credits.  CET 323: Electronic Circuits, 3 credits.  ADD: ROBO 260: Programmable Controllers, 3 credits.  CET 243: Analog I, 3 credits.  MATH226 or MATH 228: Linear Algebra and Probability for Engineers or Introduction to Linear Algebra, 4 Credits.</p>	Major Requirements (42 Credits)		Crs	ROBO110	Introduction to Robotics and Mechatronics	3	ROBO220	Parametric Modeling and Simulation	3	ROBO240	Electro-Mechanical Converters and Drivers	3	<b>ROBO260</b>	<b>Programmable Controllers</b>	<b>3</b>	ROBO310	Data Acquisition & Processing	3	ROBO330	Fluid Power Systems	3	ROBO350	Applied Control Systems I	3	ROBO370	Mechanisms for Automation	3	ROBO380	Mechatronics	3	ROBO460	Applied Control Systems II	3	ROBO470	Robotics Systems Engineering and Analysis	3	ROBO480	Industrial Robotics	3	ROBO496	Industrial Internship	3	ROBO497	Capstone: Senior Project	3		<b>Total</b>	<b>42</b>	Additional Requirements (39 Credits)		Crs	CET236	Circuits Analysis	3	<b>CET 243</b>	<b>Analog I</b>	<b>3</b>	CET363	Digital Circuits	3	CET453	Microprocessors	3	ET251	Applied Mechanics I - Statics	3	ET252	Applied Mechanics II - Dynamics	3	ET357	Strength of Materials	3	ETM358	Applied Thermodynamics	3	MATH221	Calc II	4	<b>MATH226/ MATH 228</b>	<b>Linear Algebra and Probability for Engineers/ Introduction to Linear Algebra</b>	<b>4</b>	MATH355	Introduction to Differential Equations	4	MFG216	Manufacturing Processes	3		<b>Total</b>	<b>39</b>	Free Electives (1-7 Credits)		Crs		FREE ELECTIVES			<b>Total</b>	<b>Upto 7</b>	SET
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11.1	<p><b>Course Revision</b> <a href="#">MKT 350 Internet Marketing and Channels</a></p> <p>Revise to:</p>	Bus																																																																																																			

	<p><b>MKT 350 Social Media Marketing 3</b></p> <p>Prereq: MKT 295 (C- or higher) and admission to the upper division of the Business School. Discussion of social media landscape and its impact on marketing. A critical analysis of emerging paradigms, values, best practices and tools of social media. Discussion of the related topics including personal and professional branding, web integration, networking, and idea marketing.</p>	
<b>11.2</b>	<p><b>Course Addition</b> <a href="#">MKT 360 Brand Marketing 3</a></p> <p>Prereqs: MKT 305 (C- or Better) Understanding of important issues in planning and evaluating brand strategies; appropriate concepts and techniques to improve the long-term profitability of brand strategies; establishing and measuring brand equity; understanding brand architecture and brand growth strategies; establishing linkage between brand equity and profit growth for the company.</p>	<b>Bus</b>
<b>Nursing</b>		
<b>12.1</b>	<p><b>Course Revision</b> <a href="#">NRSE 150 Nutrition</a></p> <p>Revise as follows:</p> <p>Change prereqs to: Nursing majors only. CHEM 161/162 and BIO 111 or BMS 111 or BMS 102</p>	<b>SEPS</b>
<b>12.2</b>	<p><b>Program Revision</b> <a href="#">Major in Nursing, B.S.N.</a></p> <p>Remove Chem 150, 152</p> <p>Add Chem 161, 162, Chem 210</p> <p>Replace “General Chemistry I” with “General Chemistry” in text (2 places)</p>	<b>SEPS</b>
<b>12.3</b>	<p><b>Course Deletion</b> <a href="#">NRSE 410 Holistic Family Care and Health Promotion of Families</a></p>	<b>SEPS</b>

12.4	<b>Course Deletion</b> <a href="#">NRSE 412 Holistic Nursing Care of Families, Populations, and Communities</a>	SEPS
12.5	<b>Course Addition</b> <a href="#">NRSE 305 Evidence-Based Practice for the Professional Nurse</a> 3  Prereqs: Statistics course and matriculation in RN/BSN program. Preparation of the professional nurse to be a critical consumer of nursing research, and to develop critical reviews of research relevant to the student's clinical practice area.	SEPS
12.6	<b>Course Addition</b> <a href="#">NRSE 492 Leadership for the Professional Nurse</a> 3  Prereqs: Matriculation in RN/BSN program. Leadership concepts will be further developed to enhance professional competency for the practicing nurse.	SEPS
12.7	<b>Course Addition</b> <a href="#">NRSE 496 Synthesis of Baccalaureate Nurse Practice</a> 1  <b>Prereqs:</b> Matriculation in RN/BSN program. Prior or concurrent completion of all other RN/BSN courses.  Taken during final semester of major. Seminar format to synthesize baccalaureate level nurse competencies.	SEPS
12.8	<b>Course Revision</b> <a href="#">NRSE 246 Health Care Ethics</a>  Revise to:  NRSE 246 Ethical Issues in Professional Nursing Practice 3  Prereqs: Matriculation in RN/BSN program. Ethical theories and principles will be discussed incorporating the essentials of baccalaureate nurse practice. Irregular	SEPS
12.9	<b>Course Revision</b> <a href="#">NRSE 303 Introduction to Nursing Research</a>  Revise to:  NRSE 303 Nursing Research for Evidence-Based Practice 3	SEPS

	Prereqs: Admission to the professional program in Nursing and a statistics course. Preparation of the professional nurse to be a critical consumer of nursing research and to begin to apply basic nursing research findings to nursing practice. Spring	
<b>12.10</b>	<b>Course Revision</b> <a href="#">NRSE 413 Population- and Community-Based Nursing Care</a> 0-5  Revise to:  NRSE 413 Population- and Community-Based Nursing Care 5  Prereqs: Matriculation in the RN/BSN program. This course will focus on assessment and intervention strategies to promote health and well-being of families, communities, and populations through theory and practicum experience. Off campus clinical is required. Fall	<b>SEPS</b>
<b>12.11</b>	<b>Course Revision</b> <a href="#">NRSE 414 Professional Nursing Role</a>  Revise to:  NRSE 414 Policy and Practice for the Professional Nurse 3  Prereqs: Matriculation to the RN/BSN program. Synthesis of professional nursing practice from the analysis of selected ethical , social, political, professional and role issues.	<b>SEPS</b>
<b>12.12</b>	<b>Program Revision</b> <a href="#">RN to BSN Program</a>	<b>SEPS</b>
<b>Teachers Education</b>		
<b>13.1</b>	<b>Couse Deletion</b> <a href="#">EDTE 320 Practicum in Elementary Education I</a>	<b>SEPS</b>
<b>13.2</b>	<b>Course Revision</b> <a href="#">EDEL 322 Effective Elementary Teaching</a>  Revise to:	<b>SEPS</b>

	<p>EDEL 322 Effective Elementary Teaching I 3</p> <p>Prereq.: Admission to the Professional Program of Teacher Education, EDEL 315. Emphasis on use of standards, development and alignment of objectives, daily and long-range lesson plans, instructional strategies, assessment strategies and reflection on practice. Students develop and implement lessons. 45 hours of certification specific field experience required. <b>CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class.</b></p>	
13.3	<p><b>Course Revision</b> <a href="#">EDEL 415 Elementary Social Studies Methods</a> 1</p> <p>Revise to:</p> <p>EDEL 415 Elementary Social Studies Methods 2</p> <p>Prereq.: Admission to the Professional Program of Teacher Education; EDEL 315. Introduction to content and processes of elementary social studies. Students examine curricular goals and materials, research, and construct integrative, developmentally appropriate social studies lessons, and implement lessons in field setting. CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class.</p>	SEPS
13.4	<p><b>Course Revision</b> <a href="#">EDTE 210 Education &amp; Teacher Leadership in Diverse Learning</a> 4</p> <p>Revise to: Reduce credits from 4 to 3</p>	SEPS
13.5	<p><b>Course Revision</b> <a href="#">EDTE 314 Applied Learning Theories (K-12 Programs)</a></p> <p>Revise to:</p> <p>Change title to: Applying Learning Theories in Inclusive Settings (K-12 Programs)</p> <p>Change description to: 20 hours of field experience in assigned settings required. Examination of educational theory and research related to K-12 practices, learning communities, and learners' developmental needs that</p>	SEPS

	<p>promote equity. The course emphasizes elementary level teaching. <b>CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class.</b></p>	
<b>13.6</b>	<p><b>Course Revision</b> <a href="#">EDTE 315 Principles of Learning: Elementary</a></p> <p>Revise to:</p> <p>Change designator to: EDEL 315</p> <p>Change title to: Principles of Learning: Elementary Education</p> <p>Change credits from 4 to 3</p>	<b>SEPS</b>
<b>13.7</b>	<p><b>Course Revision</b> <a href="#">EDTE 316 Principles of Learning (Sec/K-12)</a></p> <p>Revise to:</p> <p>EDTE 316 Principles of Learning in <b>Diverse</b> Settings (Secondary) 4</p> <p>Prereqs: Admission to the Profession Program in Secondary Education. Examination of educational theory and research applicable to classroom practices, learning communities, and learners developmental needs that promote equity. 30 hours of certification/age-specific field experience in assigned setting(s) required. CT law requires fingerprinting and a criminal background check for the field experiences in this class. Fingerprinting must be completed prior to the beginning of class.</p>	<b>SEPS</b>
<b>13.8</b>	<p><b>Course Revision</b> <a href="#">EDTE 420 Practicum in Elementary Education II</a> 1-2</p> <p>Revise to:</p> <p>EDEL 420 Effective Elementary Teaching II 3</p> <p>Prereq.: Admission to the Professional Program of Teacher Education; EDEL 322. Taken concurrently with RDG 412 in elementary education. Forty-five to 60 hours of on-site experience (two visits per week during regular school hours). Builds upon EDEL 322. Emphasizes teaching experience in an assigned public school setting appropriate to certification level. May be repeated with permission of department chair. CT law requires fingerprinting and a criminal background check for the field experiences in</p>	<b>SEPS</b>

	this class. Fingerprinting must be completed prior to the beginning of class.	
<b>13.9</b>	<b>Course Revision</b> <a href="#">EDSC 425 Principles of Secondary Education</a> Revise to: EDSC 425 Multicultural, Interdisciplinary Teaching at the Secondary Level 3 Prereqs: EDTE 314, or EDTE 316; admission to the Professional Program in Teacher Education. Examination of multicultural and social justice teaching through methods of instruction, curriculum planning, assessment, and classroom climate as it encompasses the responsibilities of the teacher. The course focuses on the 7-12 classroom. Thirty hours of content area major field experience is required. CT law requires fingerprinting and a criminal background check for the field experience in this class. Fingerprinting must be completed prior to the beginning of class.	<b>SEPS</b>
<b>13.10</b>	<b>Program Revision</b> <a href="#">BS Elementary Education</a>	<b>SEPS</b>
<b>Technology and Engineering Education</b>		
<b>14.1</b>	<b>Course Addition</b> <a href="#">TE 218 Electrical Applications for STEM</a> 3 Study of electrical phenomena including energy conversion, transmission, and control applied to problem-based STEM learning experiences. Fall. Study Area IV	<b>SET GE</b>
<b>Theater</b>		
<b>15.1</b>	<b>Course Addition</b> <a href="#">TH 479 Projects: Production Carpenter</a> 3 Prereqs: TH 115 or by permission of department. Individual projects in	<b>AS</b>

	reading, research, and production under the guidance of the Theatre Faculty	
<b>15.2</b>	<b>Course Addition</b> <a href="#">TH 480 Projects: Production Electrician</a> 3  Prereqs: TH 115 or by permission of department. Individual projects in reading, research and production under the guidance of Theatre Faculty	<b>AS</b>
<b>15.3</b>	<b>Course revision</b> <a href="#">TH 481 Projects: Scenery</a> 3  Revise to:  Change prereqs to: TH 213, TH 316 and/or permission of department	<b>AS</b>
<b>15.4</b>	<b>Course revision</b> <a href="#">TH 491 Projects: Technical Direction</a> 3  Revise to: TH 491 Projects: Technical Direction 3  Prereqs: TH 111, TH 115 or permission of department. Individual technical direction project in reading, research, engineering, and/or technical direction of a production under the guidance of a member of the theatre staff. May be repeated for up to 6 credits. On Demand	<b>AS</b>
<b>15.5</b>	<b>Course revision</b> <a href="#">TH 493 Projects: Stage Management</a> 3  Change prereqs to: TH 111, TH 117, TH 121, TH 251 or permission of department	<b>AS</b>
<b>15.7</b>	<b>Program revision</b> <a href="#">Major in Theatre with Specialization in Design and Technical Theatre, BFA</a>  Amended in A&S as follows: Take out TH 482 in proposed description. Have Core reflect 46 credits instead of 52. Retain “BFA” in title.	<b>AS</b>



F: Items not on consent agenda

<b>Computer Electronics/Graphics Tech</b>		
<b>3.4</b>	<b>Program Addition</b> <a href="#">BS Digital Printing Graphics Technology</a> <i>Revise as listed in link</i> Amendments: Change program title to BD Digital Printing Graphics Technology change title of GRT 242 to Digital Color Cross-Media Workflow change GRT 342 to Screen & Specialty Print Manufacturing	<b>SET</b> <b>AS</b> <b>BUS</b>
<b>3.5</b>	<b>Program Addition</b> <a href="#">BS – NETWORKING &amp; INFORMATION TECHNOLOGY</a>	<b>SET</b> <b>AS</b> <b>BUS</b>
<b>Technology and Engineering Education</b>		
<b>14.2</b>	<b>Program Revision</b> <a href="#">Major in Technology and Engineering Education (K-12), BS (130 credits)</a> Add TE 218 (replace CET 223) Delete Chem 111, Replace with BMS 101	<b>SET</b>

## **G. New Business**

### Competency Based Education and MOOCs

The curriculum committee has been asked to examine the issue of offering competency-based bachelor's degrees, perhaps using massive open online courses (MOOCs), after which students will take competency exams to measure knowledge, rather than basic the degree on classroom time or credits.

You can read more about the concept here: [http://www.aacrao.org/fullArticle/13-01-30/U\\_of\\_Wisconsin\\_to\\_Offer\\_Bachelor s Degrees Based on Competency Exams.aspx](http://www.aacrao.org/fullArticle/13-01-30/U_of_Wisconsin_to_Offer_Bachelor_s_Degrees_Based_on_Competency_Exams.aspx)

In addition, the American Council on Education, of which we are a member, has just reviewed and approved five MOOCs for university credit. Here is a link to the announcement: (<http://ow.ly/hQZzd>)

The following questions may be of interest to the curriculum committee:

1. Do any of our programs envision moving in this direction as an option to our traditional degree programs?
2. How do we award transfer credit for students completing MOOCs?