Courses Reviewed at the meeting of March 1, 2012

All courses were unanimously approved as presented.

1. Civil and Environmental Engineering/Environmental Studies/Urban and Regional Planning
   717: Water Resources Management Practicum Planning Seminar I
   Type of proposal: New course

2. Civil and Environmental Engineering/Environmental Studies/Urban and Regional Planning
   718: Water Resources Management Practicum Planning Seminar
   Type of proposal: Change in title
   Current: Water Resources Management Practicum Planning Seminar
   Proposed: Water Resources Management Practicum Planning Seminar II

3. Civil and Environmental Engineering/Environmental Studies/Urban and Regional Planning
   719: Water Resources Management Practicum
   Type of proposal: Change in title and credit
   Current: Water Resources Management Practicum. 5 credits.
   Proposed: Water Resources Management Summer Practicum. 4 credits.

4. Electrical and Computer Engineering 203: Signals, Information, and Computation
   Type of proposal: New course

5. Electrical and Computer Engineering 210: Introductory Experience in Electrical Engineering
   Type of proposal: New course

   Type of proposal: New course

7. Electrical and Computer Engineering 220: Electrodynamics I
   Type of proposal: Change in course description
   Current: Vector analysis; potential theory; static and dynamic electric and magnetic fields; macroscopic theory of dielectric and magnetic materials; Maxwell’s equations; boundary conditions.
   Proposed: Potential theory; static and dynamic electric and magnetic fields; macroscopic theory of dielectric and magnetic materials; Maxwell’s equations; boundary conditions; wave equation; introduction to transmission lines.

8. Electrical and Computer Engineering 320: Electrodynamics II
   Type of proposal: Change in course description
   Current: Static and dynamic electromagnetic fields; forces and work in electromechanical systems; magnetic circuits; plane wave propagation; reflection of plane waves; uniform transmission lines.
Proposed: Static and dynamic electromagnetic fields; forces and work in
electromechanical systems; magnetic circuits; plane wave propagation; reflection of
plane waves; generalized transmission line equations; current and voltage on
transmission lines; impedance transformation and matching; Smith charts.

   Type of proposal: Course deletion

10. Materials Science and Engineering 470: Capstone Project I
    Type of proposal: New course

11. Materials Science and Engineering 471: Capstone Project II
    Type of proposal: New course

12. Materials Science and Engineering/Engineering Mechanics and Astronautics 541:
    Heterogeneous and Multiphase Materials
    Type of proposal: New course

    Materials
    Type of proposal: New course

    Type of proposal: Change in prereqs
    Current: Prereqs > Minimum math comp (1 unit ea HS alg & geom) & satisfactory
    placement scores. Open to Fr. Stdts may not receive cr for both Math 99 & 11, nor for
    both 100 & 101
    Proposed: Prereqs > Minimum math comp (1 unit ea HS alg & geom) & satisfactory
    placement scores. Open to Fr. Closed to students with credit for Math 99 or 100.

15. Mathematics 112: Algebra
    Type of proposal: Change in prereqs
    Current: Prereqs > Intmed math comp (usually 3 units of HS math) & suitable placement
    scores, or Math 100 or 101. Open to Fr. Stdts may not receive cr for both Math 112 &
    114.
    Proposed: Prereqs > Intmed math comp (usually 3 units of HS math) & suitable
    placement scores, or Math 100 or 101. Open to Fr. Closed to students with credit for
    Math 114, Math 221 or Math 211.
16. Mathematics 113: Trigonometry
   
   **Type of proposal:** Change in prereqs
   
   **Current:** Prereqs > Adv Math comp-algebra & suitable placement scores, or completion of Math 112. Stdts may not receive cr for both Math 113 & 114. Open to Fr.
   
   **Proposed:** Prereqs > Adv math comp & suitable placement scores, or Math 100 or 101. Open to Fr. Closed to students with credit for Math 114 or Math 221.

17. Mathematics 114: Algebra and Trigonometry
   
   **Type of proposal:** Change in prereqs
   
   **Current:** Prereqs > Intmed math comp (usu 3 units HS math) & suitable plct scores, or Math 100 or 101. Open to Fr. Stdts may not receive cr for both Math 112 & 114 nor for both 113 & 114.
   
   **Proposed:** Prereqs > Intmed math comp (usu 3 units HS math) & suitable plct scores, or Math 100 or 101. Open to Fr. Closed to students with credit for Math 112 and Math 113.

18. Mathematics 171: Calculus with Algebra and Trigonometry I
   
   **Type of proposal:** Change in prereqs
   
   **Current:** Prereqs > Intermed math comp (usually 3 units HS math) & suitable placement scores, or Math 101. Open to Fr.
   
   **Proposed:** Prereqs > Intermed math comp (usually 3 units HS math) & suitable placement scores, or Math 101. Open to Fr. Closed to students with credit for Math 221.

19. Mathematics 211: Calculus
   
   **Type of proposal:** Change in prereqs
   
   **Current:** Prereqs > Open to Fr. Adv math competency – algebra & suitable placement scores or Math 112 or 114. May not receive full cr for both Math 211 & 221.
   
   **Proposed:** Prereqs > Open to Fr. Adv math competency – algebra & suitable placement scores or Math 112 or 114. Closed to students with credit for Math 221.

20. Mathematics 213: Calculus and Introduction to Differential Equations
   
   **Type of proposal:** Change in prereqs
   
   **Current:** Prereqs > Math 211 or 221. Stdts may not receive full degree cr for both Math 222 and 213 or both Math 223 and 213 or both Math 234 and 213.
   
   **Proposed:** Prereqs > Math 211 or 221. Closed to students with credit for Math 222, 223, or 234.

21. Mathematics 221: Calculus and Analytic Geometry
   
   **Type of proposal:** Change in title and prereqs
   
   **Current:** Calculus and Analytic Geometry. Prereqs > I) Adv math comp–alg & suitable plct scores, or Math 112 & (II) Adv math comp-trig & suitable plct scores, or Math 113; or Math 114. Open to Fr. May not rec cr for both Math 211 & 221.

22. Mathematics 222: Calculus and Analytic Geometry

Type of proposal: Change in title and prereqs

Current: Calculus and Analytic Geometry. Prereqs > Math 221. Stdts may not receive full degree cr for both Math 222 & 213. Open to Fr.


23. Mathematics 223: Calculus and Analytic Geometry

Type of proposal: Change in title and prereqs

Current: Calculus and Analytic Geometry. Prereqs > Math 222. Stdts may not receive full degree cr for both Math 223 & 213 or both Math 223 & 234 or both Math 223 & 235.


24. Mathematics 234: Calculus – Functions of Several Variables

Type of proposal: Change in prereqs

Current: Prereqs > Math 222. Stdts may not receive cr for both Math 223 & Math 234.

Proposed: Prereqs > Math 222. Closed to students with credit for Math 223.

25. Mathematics 320: Linear Algebra and Differential Equations

Type of proposal: Change in prereqs

Current: Prereqs > Math 222. Credit may not be received for both Math 320 & 340.

Proposed: Prereqs > Math 222.


Type of proposal: Change in prereqs

Current: Prereqs > Math 234 or Math 222 & 240. Credit may not be received for both Math 320 & 340.

Proposed: Prereqs > Math 234 or Math 222 & 240. Closed to students with credit for either Math 341 or Math 375.

27. Mathematics 341: Linear Algebra

Type of proposal: Change in prereqs

Current: Prereqs > Math 234 or cons inst. Credit may not be received for both Math 341 and any of Math 340 & 375. Open to Fr.

Proposed: Prereqs > Math 234 or cons inst. Closed to students with credit for Math 375. Open to Fr.
28. **Mathematics 375**: Topics in Multi-Variable Calculus and Linear Algebra
   *Type of proposal: Change in prereqs*
   
   *Current: Prereqs > Math 276 or cons inst. Credit may not be received for both Math 375 and any of Math 340 & 341.*
   
   *Proposed: Prereqs > Math 276 or cons inst*

29. **Mathematics 421**: The Theory of Single Variable Calculus
   *Type of proposal: Change in prereqs*
   
   *Current: Prereqs > Math 234 or cons inst. Stdts cannot receive cr for Math 421 if they have taken Math 275-276. Open to Fr.*
   
   *Proposed: Prereqs > Math 234 or cons inst. Open to Fr.*

30. **Mathematics 441**: Introduction to Modern Algebra
    *Type of proposal: Change in prereqs*
    
    *Current: Prereqs > Math 340. Stdts who have passed Math 541 are not permitted to take Math 441 for credit.*
    
    *Proposed: Prereqs > Math 340 or 341 or cons inst. Closed to students who have credit for Math 541.*