Department Mathematics

College Science Date Initiated 1/18/2012

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Instructions: The following curriculum proposal is submitted to the COLLEGE CURRICULUM COMMITTEE. If this is replacing a course that already exists or equivalent to another course please submit the CHANGE EXISTING COURSE form found at www.ugs.utah.edu/curricadmin. If you need any clarification on filling out the form please contact the Curriculum Coordinator at 801/587-7843 or click ?'s.


Cross-Listed Course $\square$ with $\quad$ OR Meets-With Course $\square \square$

* Cross-Listed courses must have a form submitted for EACH course and must have the same information and title. Component (choose one)
$\square$
Are there requisites? $\boxtimes$ Yes $\square$ No Prerequisites
Math 1310, AP Calculus BC score of at leas Min. Grade if Applicable Corequisites Math 1310, AP Calculus BC score of at leas M. Grade if Applicable Min. Grade if Applicable

This section is for Differential and integral Calculus II, with a focus on applications and projects for engineers: integral the course description that appears in the course catalog. expressions for moments, centers of mass, and work; modeling with first order differential equations; infinite series and sequences; power series and Taylor series; vectors, dot and cross products, and the geometry of space; the calculus of vector functions and particle motion in space; differential calculus for functions of several variables, including linear approximation, partial and directional derivatives, chain rule, and multi-variable optimization.

## Step I. Departmental Approval:

Professor Peter Trapa

## Please Type Name

## Step II. College Curriculum Committee Approval:

The Curriculum Committee has reviewed the proposal of the department and concurs with its recommendation.

| Please Type Name | Signature, Curriculum Committee Chair | Date |
| :--- | :--- | :--- | :--- |
| Step III. College Dean Approval: |  |  |
| I have reviewed the curriculum proposal and am satified that all the requirements have been met. |  |  |
| Dean Pierre Sokolsky | Signature, College Dean | Date |


|  | Signature, College Dean | Date |
| :---: | :---: | :---: |
| Please Type Name |  |  |
| Curriculum Administration Only: | Approved: |  |
|  | Responded: | Code |
| Please keep | e, and send one copy to the Curric 87-7843 Fax 585-3581 | 144 SILL Center |

